STR-K670P

SERVICE MANUAL

Ver. 1.1 2005.09

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model

• STR-K670P is the tuner and the amplifier section in HT-DDW670 and HTP-82DWK.

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SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
(Models of area code US only)

With 6 ohm loads, both channels driven, from 120 – 20,000 Hz; rated 60 watts per channel minimum RMS power, with no more than 0.7% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Power Output[1)]

Models of area code US
(6 ohms 1 kHz, THD 10%)
FRONT[2)]: 100 W/ch
CENTER[2)]: 100 W
SURR[2)]: 100 W/ch
(6 ohms 100 Hz, THD 10%)
SUB WOOFER[2)]: 100 W

Models of area code CND
(6 ohms 1 kHz, THD 0.7%)
FRONT[2)]: 60 W/ch
CENTER[2)]: 60 W
SURR[2)]: 60 W/ch
(6 ohms 100 Hz, THD 0.7%)
SUB WOOFER[2)]: 60 W
(6 ohms 1 kHz, THD 10%)
FRONT[2)]: 100 W/ch
CENTER[2)]: 100 W
SURR[2)]: 100 W/ch
(6 ohms 100 Hz, THD 10%)
SUB WOOFER[2)]: 100 W

Models of area code AEP, UK, MX, SP, E51
(6 ohms 1 kHz, THD 0.7%)
FRONT[2)]: 50 W/ch
CENTER[2)]: 50 W
SURR[2)]: 50 W/ch
(6 ohms 100 Hz, THD 0.7%)
SUB WOOFER[2)]: 50 W
(6 ohms 1 kHz, THD 10%)
FRONT[2)]: 85 W/ch
CENTER[2)]: 85 W
SURR[2)]: 85 W/ch
(6 ohms 100 Hz, THD 10%)
SUB WOOFER[2)]: 85 W

Models of area code AUS
(6 ohms 120 Hz – 20 kHz, THD 0.09%)
FRONT[2)]: 40 W/ch
CENTER[2)]: 40 W
SURR[2)]: 40 W/ch
(6 ohms 100 Hz, THD 0.09%)
SUB WOOFER[2)]: 40 W
(6 ohms 1 kHz, THD 0.7%)
FRONT[2)]: 50 W/ch
CENTER[2)]: 50 W
SURR[2)]: 50 W/ch
(6 ohms 100 Hz, THD 0.7%)
SUB WOOFER[2)]: 50 W/ch
(6 ohms 1 kHz, THD 10%)
FRONT[2)]: 85 W/ch
CENTER[2)]: 85 W
SURR[2)]: 85 W/ch
(6 ohms 100 Hz, THD 10%)
SUB WOOFER[2)]: 85 W

– Continued on next page –

FM STEREO FM-AM RECEIVER

9-879-447-02
2005I16-1
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Sony Corporation
Audio Group
Published by Sony Engineering Corporation

SONY

1) Measured under the following conditions:

Area code	Power requirements
US, CND	120 V AC, 60 Hz
AEP, UK, SP	230 V AC, 50 Hz
AUS, E51	240 V AC, 50 Hz
MX	127 V AC, 60 Hz

2) Depending on the sound field settings and the source, there may be no sound output.

Inputs (Analog)

SA-CD/CD, DVD VIDEO 1, 2	Sensitivity: 800 mV Impedance: 50 k ohms

Inputs (Digital)

DVD (Coaxial)	Sensitivity: – Impedance: 75 ohms
SA-CD/CD (Optical)	Sensitivity: – Impedance: –

Output (Analog)

SUB WOOFER	Voltage: 2 V Impedance: 1 k ohm

Reproduction frequency range:
28 – 20,000 Hz

Tone

Gain levels	±6 dB, 1 dB step

FM tuner section

Tuning range	87.5 - 108.0 MHz
Antenna	FM wire antenna
Antenna terminals	75 ohms, unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range
Models of area code US, CND
With 10-kHz tuning scale: 530 - 1,710 kHz[3)]
With 9-kHz tuning scale: 531 - 1,710 kHz[3)]
Models of area code AEP, UK, AUS, SP
With 9-kHz tuning scale: 531 – 1,602 kHz
Models of area code E51
With 10-kHz tuning scale: 530 - 1,610 kHz[3)]
With 9-kHz tuning scale: 531 - 1,602 kHz[3)]
Models of area code MX
With 10-kHz tuning scale: 530 - 1,610 kHz

Antenna	Loop antenna
Intermediate frequency	450 kHz

3) You can change the AM tuning scale to 9 kHz or 10 kHz. After tuning in any AM station, turn off the receiver. While holding down PRESET TUNING + or TUNING +, press I/⏻. All preset stations will be erased when you change the tuning scale. To reset the scale to 10 kHz (or 9 kHz), repeat the procedure.

General

Power requirements

Area code	Power requirements
US, CND	120 V AC, 60 Hz
AEP, UK	230 V AC, 50/60 Hz
AUS	240 V AC, 50 Hz
E15	120/220/240 V AC, 50/60 Hz
SP	220 – 230 V AC, 50/60 Hz
MX	127 V AC, 60 Hz

Power consumption

Area code	Power consumption
US, AEP, UK, E51, SP, MX, AUS	160 W
CND	220 VA

Power consumption (during standby mode)
0.2 W
Dimensions (w/h/d) (Approx.)
430 × 145 × 301.5 mm (17 × 5 6/8 × 11 7/8 inches) including projecting parts and controls
Mass (Approx.) 6.5 kg (14 lb 6 oz)

- Abbreviation
  AUS : Australian model
  CND : Canadian model
  E51 : Chilean and Peruvian models
  MX : Mexican model
  SP : Singapore model

Design and specifications are subject to change without notice

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

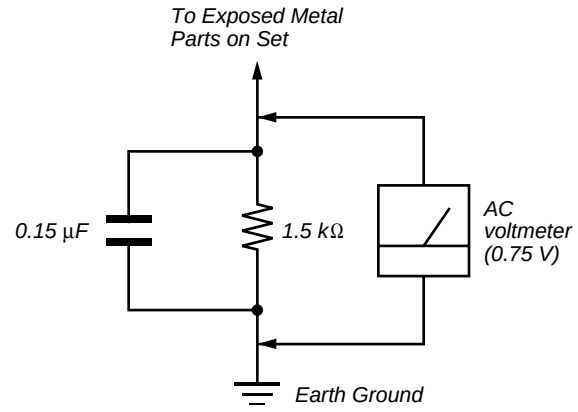

Fig. A. Using an AC voltmeter to check AC leakage.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM- POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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MODEL IDENTIFICATION
– BACK PANEL –

Model	Part No.
US model	2-342-334-0□
CND model	2-342-334-1□
AUS model	2-342-334-2□
SP model	2-342-334-3□
MX model	2-342-334-4□
E51 model	2-342-334-5□
AEP and UK models	2-342-334-8□

- Abbreviation
  AUS : Australian model
  CND : Canadian model
  E51 : Chilean and Peruvian models
  MX : Mexican model
  SP : Singapore model

SECTION 1
GENERAL

This section is extracted from instruction manual.

Main unit

ALPHABETICAL ORDER

A - H

A.F.D. 9 (25, 26, 27)
AM 16 (18, 19, 32, 41)
DIMMER 3 (23)
DISPLAY 2 (21, 23, 39)
Display 5 (21, 23)
DVD 19 (18)
ENTER 7 (14, 32)
FM 17 (18, 19, 32, 41)
FM MODE 25 (19)

I - O

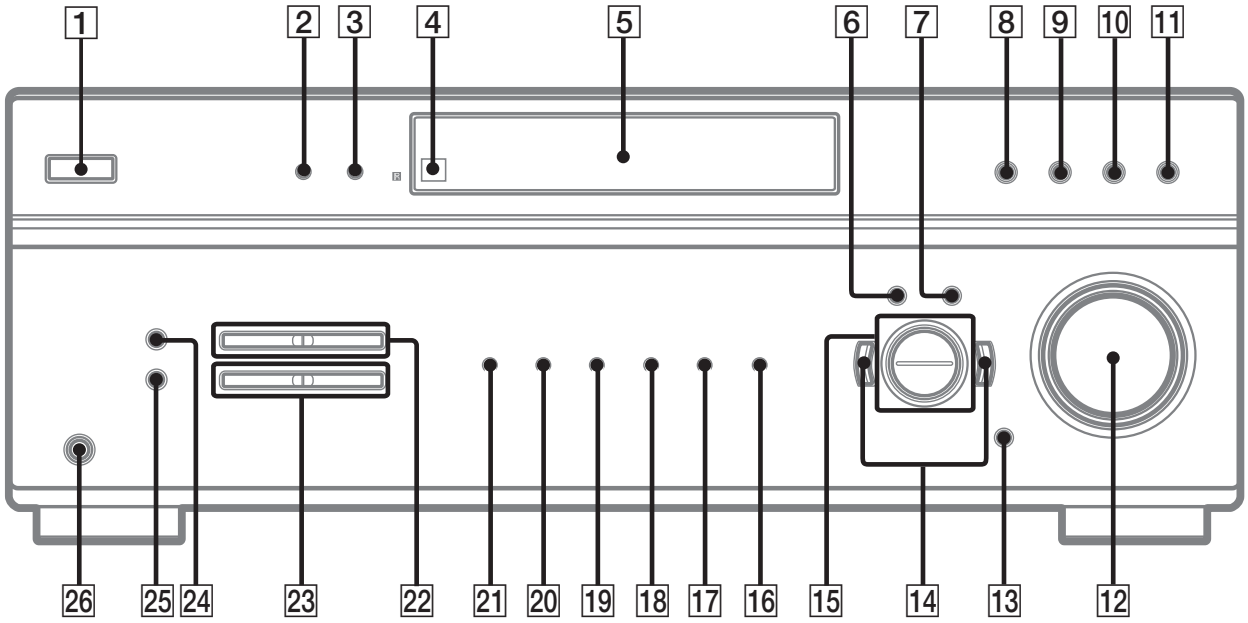
INPUT MODE 13 (28)
IR (receptor) 4 (33, 39)
MAIN MENU 6 (15, 28, 30, 32)
MASTER VOLUME –/+ 12 (14, 17, 18, 38)
MEMORY 24 (20)
MOVIE 10 (26, 27, 38)
MUSIC 11 (27, 38)

P - Z

PHONES (jack) 26 (18, 38)
PRESET TUNING –/+ 22 (20)
SA-CD/CD 18 (18)
TUNING –/+ 23 (19)
VIDEO 1 21 (18)
VIDEO 2 20 (18)

NUMBERS AND SYMBOLS

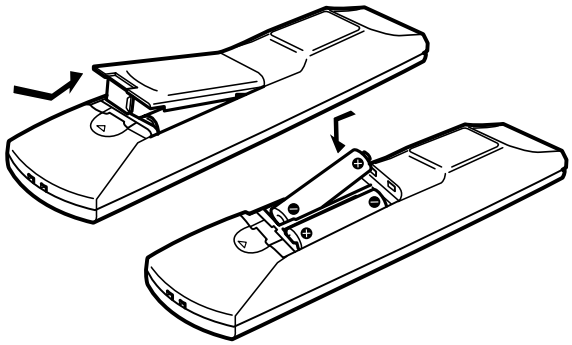
2CH 8 (25, 27, 29)
I/⏻ (power) 1 (14, 20, 29)
</> 14 (15, 28, 30, 32)
+/– 15 (15, 28, 30, 32)



Before you use your remote

Inserting batteries into the remote

Insert R6 (size-AA) batteries with the + and – properly oriented in the battery compartment. When using the remote, point it at the remote sensor ▣ on the receiver.



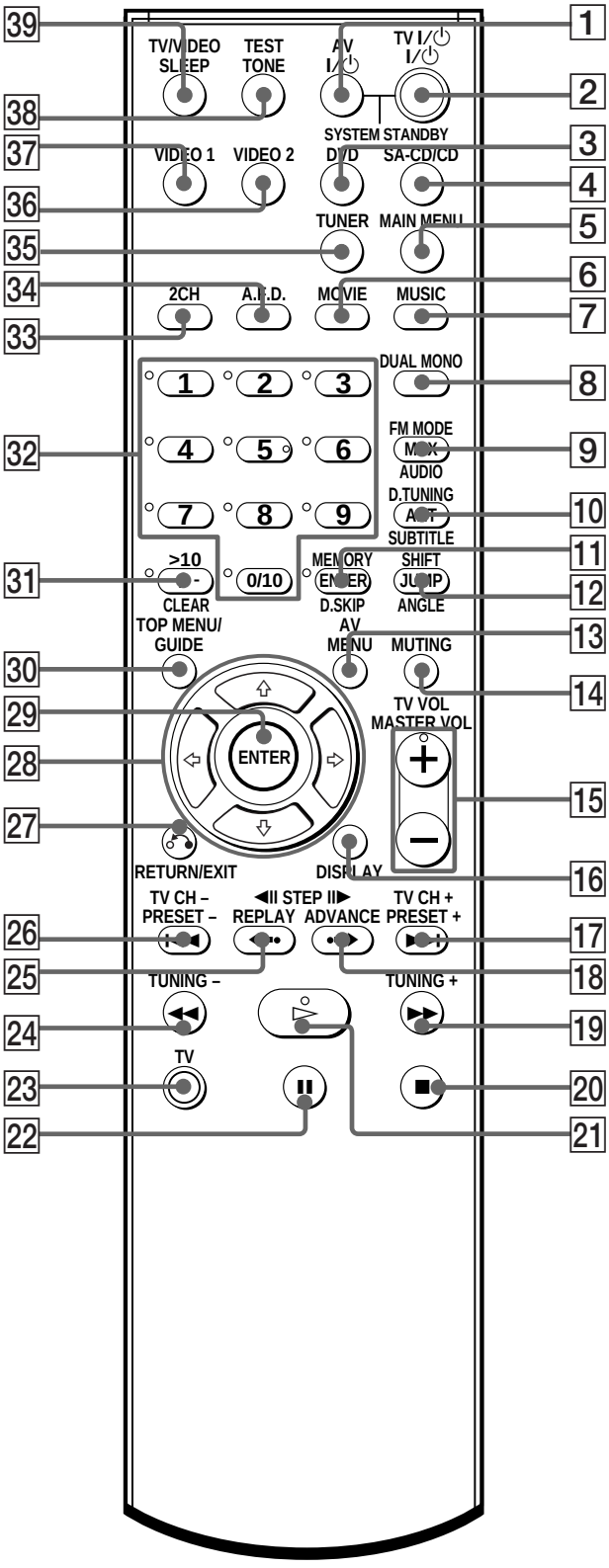
Tip

Under normal conditions, the batteries should last for about 6 months. When the remote no longer operates the receiver, replace all batteries with new ones.

Notes

- Do not leave the remote in an extremely hot or humid place.
- Do not use a new battery with an old one.
- Do not expose the remote sensor to direct sunlight or lighting apparatuses. Doing so may cause a malfunction.
- If you don't use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

Remote button description



The tables below show the settings of each button.

Remote Button	Operations	Function
A.F.D. 34	Receiver	Selects the decoding mode for audio sound.
ANGLE 12	DVD player	Selects viewing angle or changes the angles.
ANT 10	VCR/ Satellite tuner	Selects output signal from the antenna terminal: TV signal or VCR program.
AUDIO 9	DVD player/ Satellite tuner	Changes the sound to Multiplex or Bilingual or Multi channel TV sound.
AV MENU 13	VCR/ DVD player/ Satellite tuner	Displays menu.
AV I/⏻ 1	VCR/ CD player/ DVD player/ Satellite tuner/ MD deck	Turns the audio and video components on or off.
CLEAR 31	DVD player/ Satellite tuner	Clears a mistake when you press the incorrect numeric buttons or returns to continuous playback etc.
DISPLAY 16	Receiver/ CD player/ VCR/ DVD player/ Satellite tuner/ MD deck	Selects information displayed on the TV screen.
D.SKIP 11	CD player/ DVD player	Skips discs (multi-disc changer only).
D.TUNING 10	Receiver	Enters direct tuning mode.
DUAL MONO 8	Receiver	Selects the language you want during digital broadcast.
DVD 3	Receiver	To watch DVD.
ENTER 11	TV/VCR/ Satellite tuner	After selecting a channel, disc or track using the numeric buttons, press to enter the value.
ENTER 29	Receiver/ VCR/ DVD player/ Satellite tuner/ CD player/ MD deck	Enters the selection.
FM MODE 9	Receiver	Selects FM monaural or stereo reception.
JUMP 12	Satellite tuner	Toggles between the previous and the current channels.
MAIN MENU 5	Receiver	Selects the menu of the receiver.
MASTER VOL +/– 15	Receiver/TV	Adjusts the master volume of the receiver.
MEMORY 11	Receiver	Stores the radio stations.
MOVIE 6	Receiver	Selects the pre-programmed sound fields for movie.
MPX 9	VCR	Select main or sub language.
MUSIC 7	Receiver	Selects the pre-programmed sound fields for music.
MUTING 14	Receiver	Mutes the sound from the receiver.
PRESET +/– 17 26	Receiver	Selects preset stations.
	TV/VCR/ Satellite tuner	Select preset channel.
RETURN/ EXIT 27	DVD player	Returns to the previous menu or exits the menu.
	Satellite tuner	Exits the menu.
SA-CD/CD 4	Receiver	To listen to Super Audio CD or compact disc.
SHIFT 12	Receiver	Selects a memory page for presetting radio stations or tuning to preset stations.

Remote Button	Operations	Function
SLEEP 39	Receiver	Activates the sleep function and the duration which the receiver turns off automatically.
SUBTITLE 10	DVD player	Changes the subtitles.
SYSTEM STANDBY (Press AV I/⏻ 1 and I/⏻ 2 at the same time)	Receiver/ TV/VCR/ CD player/ DVD player/ Satellite tuner/ MD deck/ DAT deck	Turns off the receiver and other Sony audio/ video components.
TEST TONE 38	Receiver	Outputs test tone.
TOP MENU/ GUIDE 30	DVD player	Displays DVD title.
	Satellite tuner	Display guide menu.
TUNER 35	Receiver	To listen to radio programs.
TUNING+/– 19 24	Receiver	Scans radio station.
TV 23	TV	To watch TV programs.
TV CH +/– 17 26	TV	Selects preset TV channels.
TV/VIDEO 39	TV	Selects input signal: TV input or video input.
TV VOL +/– 15	TV	Adjusts the volume of the TV.
TV I/⏻ 2	TV	Turns the TV on or off.
VIDEO 1 37	Receiver	To watch VCR. (VTR mode 3)
VIDEO 2 36	Receiver	To watch VCR. (VTR mode 1)

Remote Button	Operations	Function
1-9 and 0/10 32	Receiver	Use with SHIFT to preset radio station or tuning to preset stations and with D.TUNING for direct tuning.
	CD player/ DVD player/ MD deck	Selects track numbers. 0/10 selects track 10.
	TV/ VCR/ Satellite tuner	Selects channel numbers.
2CH 33	Receiver	Selects 2CH STEREO mode.
>10 31	VCR/ CD player/ DVD player/ Satellite tuner/ MD deck	Selects track numbers over 10.
-/-- 31	TV	Selects the channel entry mode, either one or two digit.
I/⏻ 2	Receiver	Turns the receiver on or off.
◀II STEP II▶ REPLAY ←•/ ADVANCE •→ 25 18	VCR/ DVD player	Replay the previous scene or fast forward the current scene.
I◀◀/▶▶I 26 17	VCR/ CD player/ DVD player	Skips tracks.
◀◀/▶▶ 24 19	DVD player	Searches tracks in the forward or backward direction.
	VCR/ CD player/ MD deck/ Tape deck	Fastforwards or rewinds.
▷ 21	VCR/ CD player/ DVD player/ MD deck/ Tape deck	Starts playback.

Remote Button	Operations	Function
⏸ 22	VCR/ CD player/ DVD player/ MD deck/ Tape deck	Pauses playback or recording. (Also starts recording with components in recording standby.)
■ 20	VCR/ CD player/ DVD player/ MD deck/ Tape deck	Stops playback.
↩ 27	DVD player	Returns to the previous menu or exits the menu.
↑/↓ 28	Receiver	Selects a menu item.
←/→ 28	Receiver	Adjusts or changes the setting.
↑/↓/←/→ 28	VCR/ Satellite tuner/ DVD player	Selects a menu item.

Notes

- Some functions explained in this section may not work depending on the model.
- The above explanation is intended to serve as an example only. Therefore, depending on the component the above operation may not be possible or may operate differently than described.
- When you press input buttons (VIDEO 1, VIDEO 2 or DVD), the input mode of the TV might not switch to the corresponding input mode that you want. In this case, press TV/VIDEO button to switch the input mode of the TV.
- To activate the buttons with orange printing, press TV and the button you want simultaneously.

Changing the factory setting of an input button

If the factory settings of the input buttons do not match your system components, you can change them. For example, if you have a CD player and you do not have a DVD player, you can assign the DVD button to your CD player.

1 Hold down the input button whose input you want to change (for example, DVD).

2 Press the corresponding button of the component you want to assign to the input button (for example, 5 – CD player).

The following buttons are assigned to select the input:

To operate	Press
VCR (command mode VTR 3*)	1
VCR (command mode VTR 2*)	2
DVD player or DVD recorder (command mode DVD 1)	3
DVD recorder (command mode DVD 3)	4
CD player	5
MD deck	6
Tape deck B	7
Tuner (this receiver)	8
DSS (Digital Satellite Receiver)	9
DCS (Digital CS Tuner)	0/10
BSD (Digital BS Tuner)	-/--

*Sony VCRs are operated with a VTR 2 or 3 setting. These correspond to 8 mm and VHS respectively.

Now you can use the DVD button to control the CD player.

To reset a button to its factory setting

Repeat the above procedure.

To reset all the input buttons to their factory setting

Press I/⏻, TEST TONE and MASTER VOL – at the same time.

SECTION 2
TEST MODE

FACTORY PRESET MODE

- All preset contents are reset to the default setting.
- Procedure:
  While depressing the PRESET TUNING– and the DIMMER buttons simultaneously, press the power I/⏻ button to turn on the main power. The message "FACTORY" appears and switch off the set.
  While depressing the PRESET TUNING– and the DIMMER buttons simultaneously, press the power I/⏻ button again. The message "FACTORY" appears and the present contents are reset to the default values.

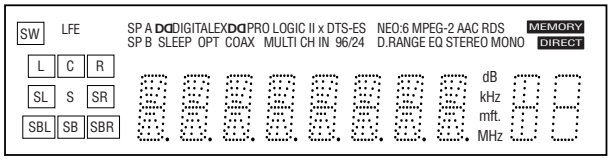
AM CHANNEL STEP 9 kHz/10 kHz SELECTION MODE

- Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.
- Procedure:
  Set the FUNCTION to AM. Turn off the main power.
  While depressing the TUNING+ button or the PRESET TUNING+ button, press the power I/⏻ button to turn on the main power. Either the message "9 k STEP" or "10 k STEP" appears. Select the desired step.
  This mode is only for US, Canadian, Australian and E models.

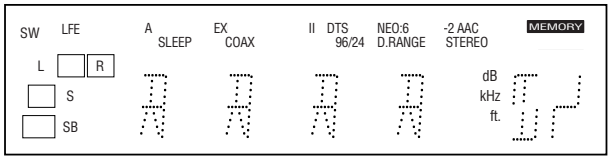
FLUORESCENT INDICATOR TUBE TEST MODE

- All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.
- Procedure:
  While depressing the PRESET TUNING– and the AM buttons simultaneously, press the power I/⏻ button to turn on the main power.

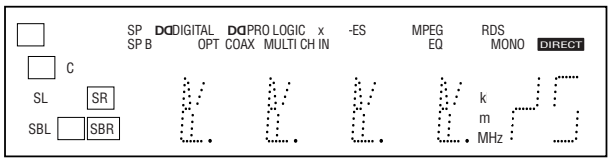
1. All segments turn on.



2. Press the VIDEO 1 button, confirm display.



3. Press the VIDEO 1 button, confirm display



4. Press the VIDEO 1 button, All segments turn off.

5. Every pressing of the VIDEO 1 button turns on each segment one after another in the same order.
   (Not only the VIDEO 1 button, but also the other buttons such as VIDEO 2, DVD, SA-CD/CD, FM and AM can be used.)

SOUND FIELD CLEAR MODE

- The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.
- Procedure:
  While depressing the 2CH button, press the power I/⏻ button to turn on the main power.
  The message "SF. CLR." appears and initialization is performed.

SOFTWARE VERSION DISPLAY MODE

- The software version is displayed.
- Procedure:
  While depressing the PRESET TUNING– and the < buttons simultaneously, press the power I/⏻ button to turn on the main power. The model name, destination and the software version are displayed.

KEY CHECK MODE

- Button check
- Procedure:
  While depressing the A.F.D and the < buttons simultaneously, press the power I/⏻ button to turn on the main power.
  "REST 25" appears.
  Every pressing of any button other than I/⏻ counts down the buttons. The buttons which are already counted once are not counted again. When all buttons are pressed "REST 00" appears.
  When MASTER VOLUME is rotated in clockwise direction, "VOL MIN", "VOL 1" to "VOL 48", "VOL MAX" appear.

AUTO BETICAL MODE

- This mode is installed in the Europe models only. When this mode is used, the receiver scans the broadcasts that can be received by the tuner, and sets up the broadcasts. Be sure to start scanning after connecting the antenna.
- Procedure:

1. Check that the antenna is connected.
2. Press the I/⏻ button to turn on the power while pressing the MEMORY button.

CHANGE COMMON MODE

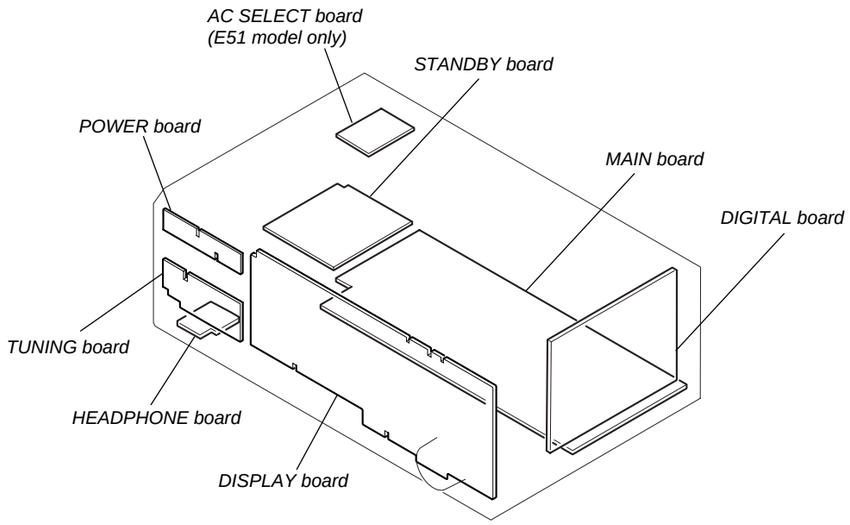
- This mode is command mode changed to AV 1 or AV2.
- Procedure:
  While depressing the ENTER button, press the power I/⏻ button to turn on the main power.
  Either the message "C.MODE.AV 1" or "C.MODE.AV 2" appears.

SHIPMENT MODE

- All preset contents are reset to the default setting.
- Procedure:
  While depressing the A.F.D. and the AM buttons simultaneously, press the power I/⏻ button to turn on the main power.
  "CLEARED" appears.

SECTION 3
DIAGRAMS

• Circuit Boards Location



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For Schematic Diagrams.
Note:

- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

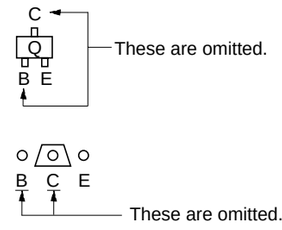
Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

- : B+ Line.
- : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  No mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
  : FM
  : ANALOG
  : DIGITAL
- Abbreviation
  AUS : Australian model
  CND : Canadian model
  E51 : Chilean and Peruvian models
  MX : Mexican model
  SP : Singapore model

For Printed Wiring Boards.
Note:

- : parts extracted from the component side.
- ○ : Through hole.
- △ : internal component.
- : Pattern from the side which enables seeing.

- Indication of transistor.

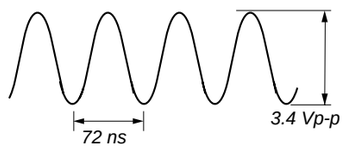


Caution:	
Pattern face side: (Side A)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side B)	Parts on the parts face side seen from the parts face are indicated.

• Waveforms

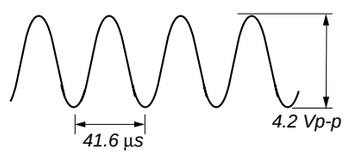
– DIGITAL Board –

① IC1501 ⑨ (MCLK1)



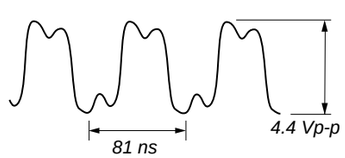
1 V/DIV, 40 ns/DIV

② IC1101 ㉝ (X1)



1 V/DIV, 20 ns/DIV

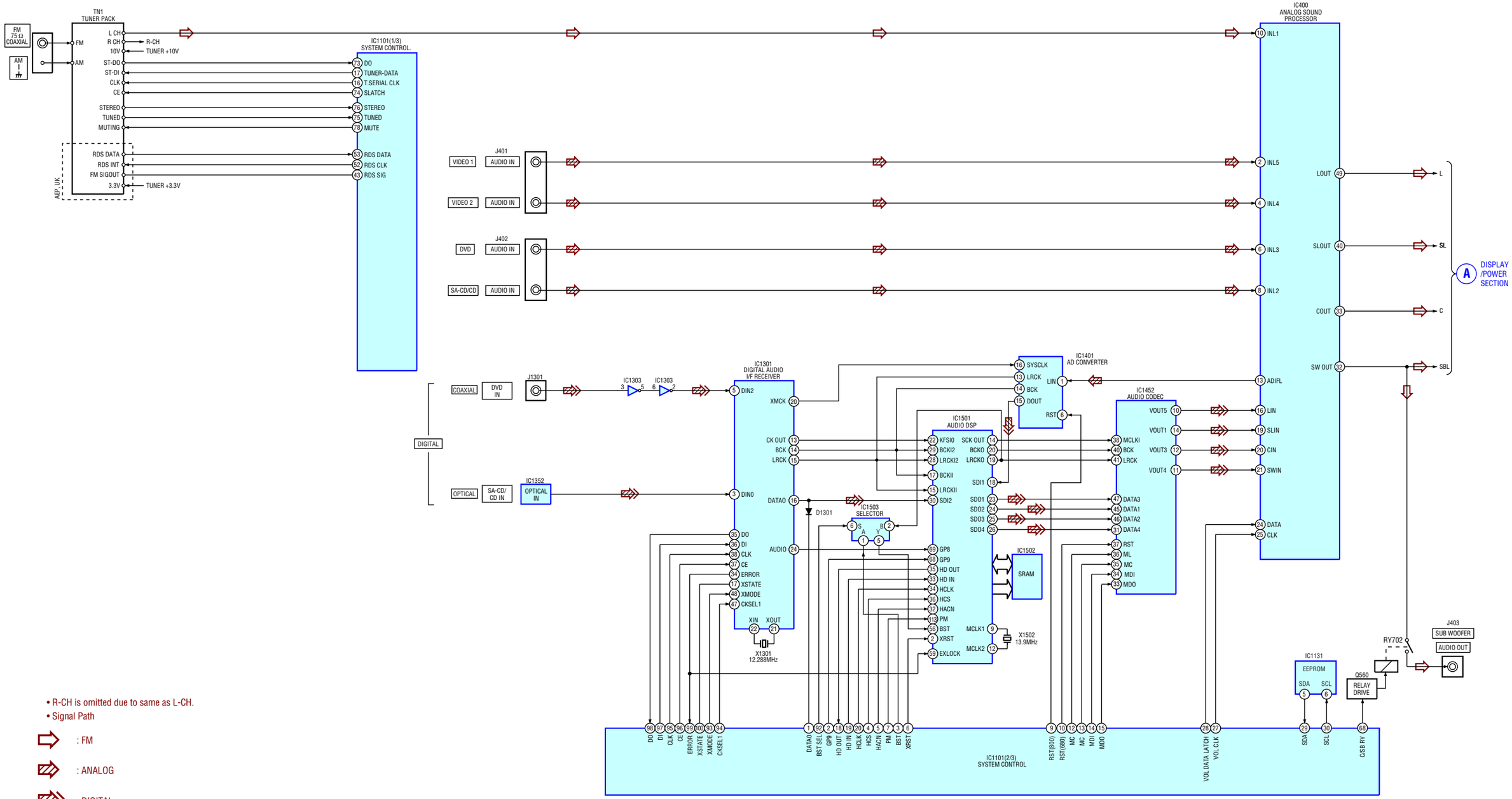
③ IC1301 ㉒ (XIN)



1 V/DIV, 40 ns/DIV

STR-K670P

3-1. BLOCK DIAGRAM — MAIN SECTION —



- R-CH is omitted due to same as L-CH.
- Signal Path

: FM

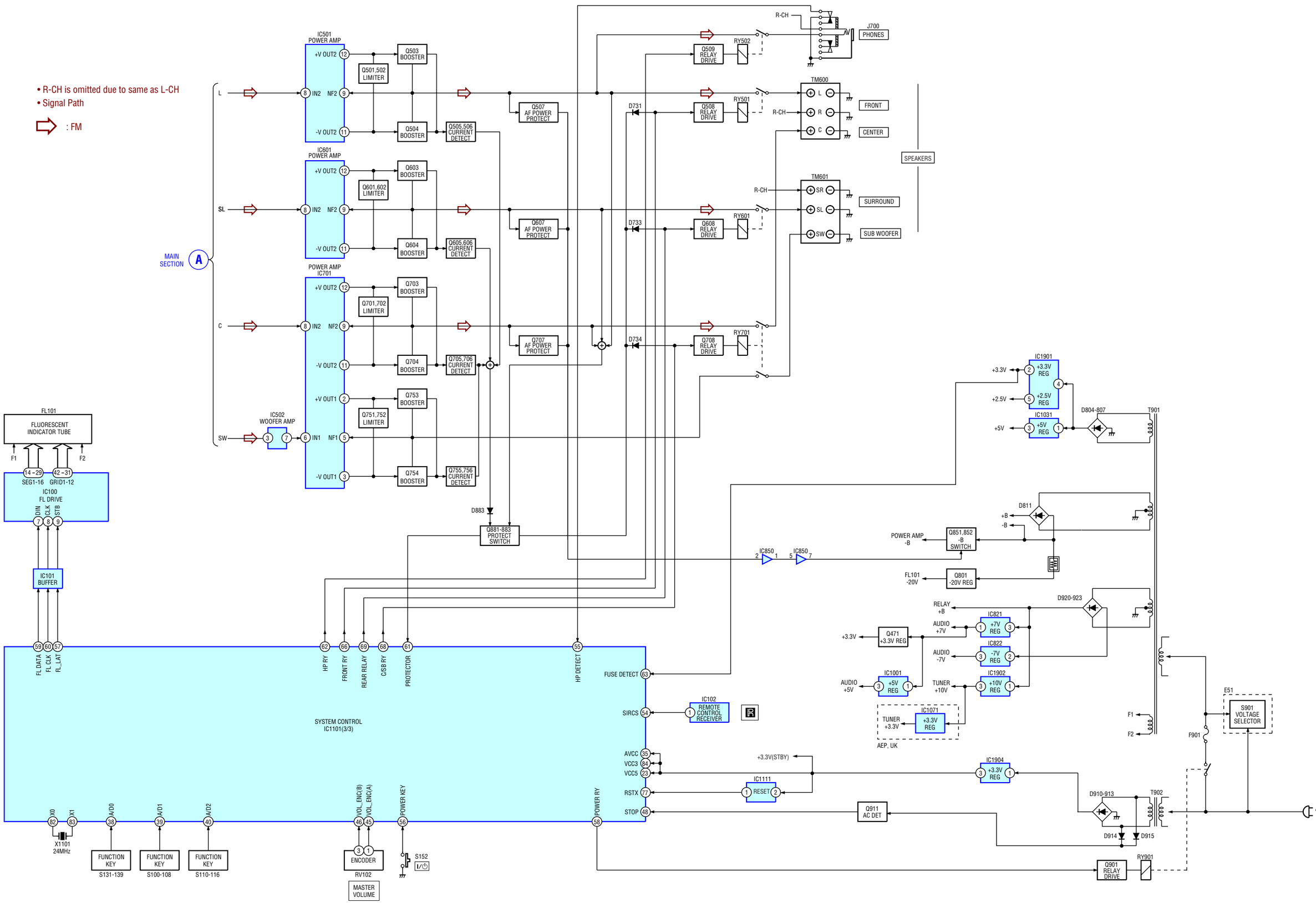
: ANALOG

: DIGITAL

3-2. BLOCK DIAGRAM — DISPLAY/POWER SECTION —

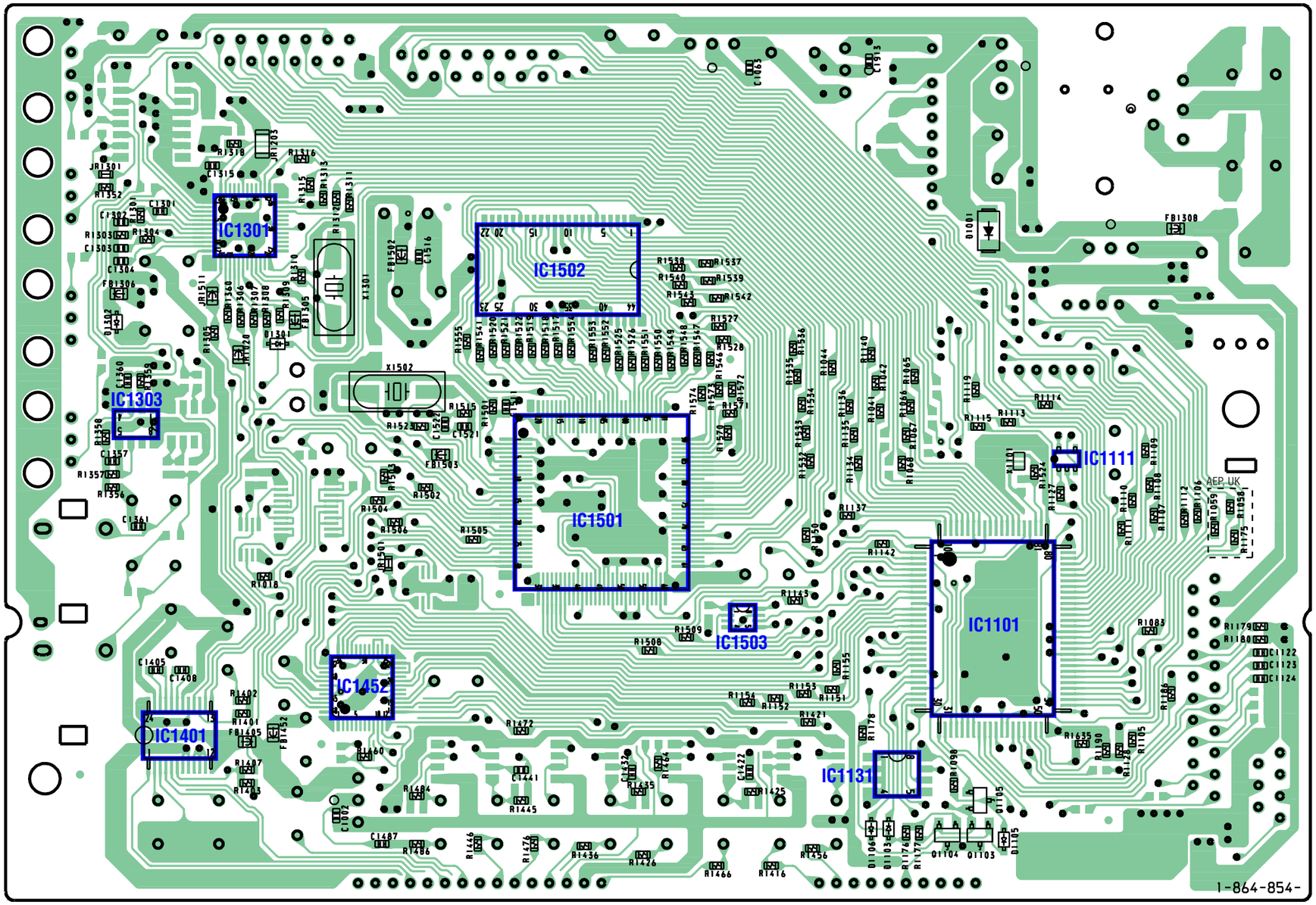
- R-CH is omitted due to same as L-CH
- Signal Path

: FM



3-3. PRINTED WIRING BOARD — DIGITAL BOARD (SIDE A) — • :Uses unleaded solder. • See page 11 for Circuit Boards Location.

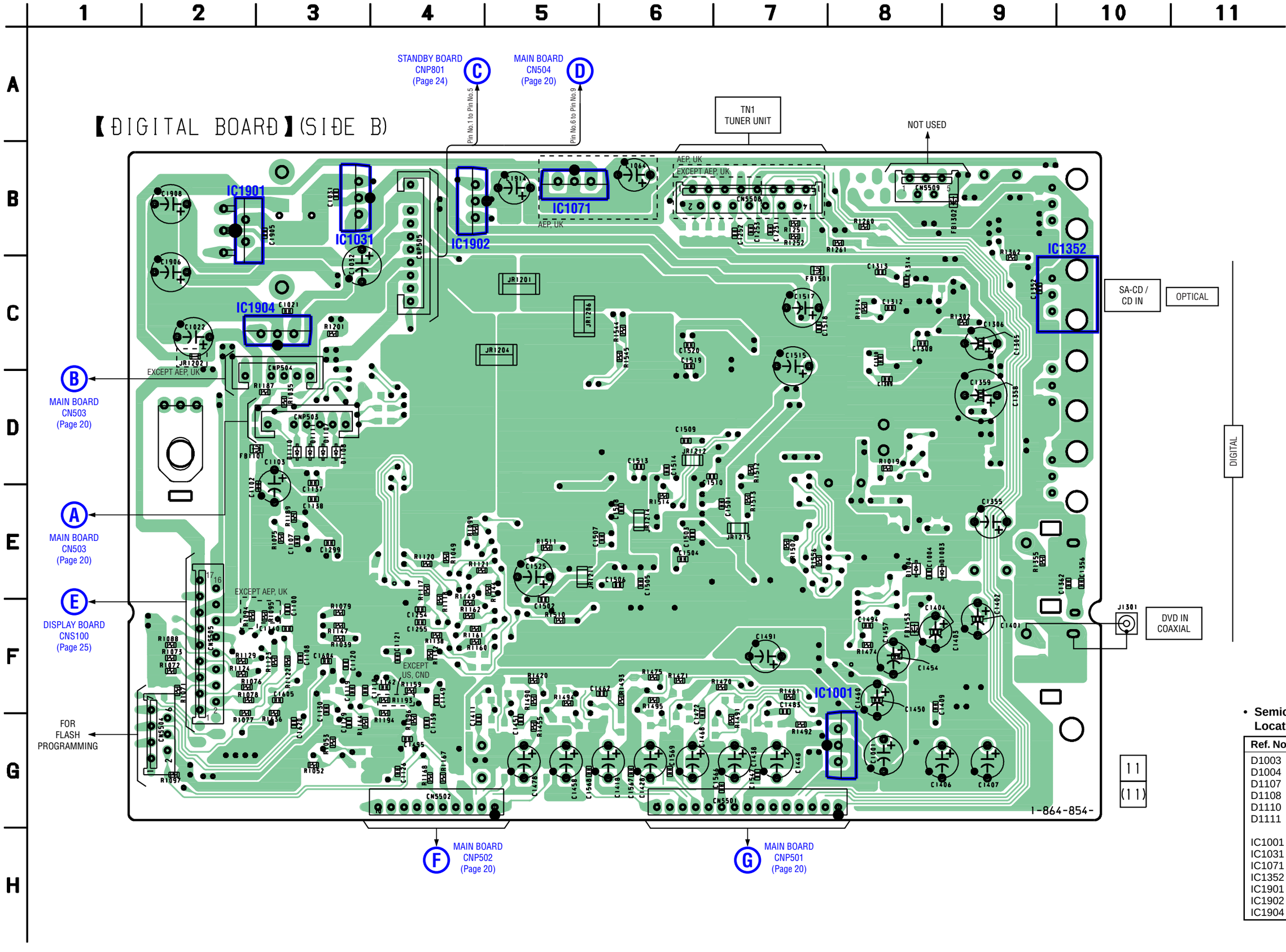
【DIGITAL BOARD】(SIDE A)



- **Semiconductor Location**

Ref. No.	Location
D1001	C-8
D1103	G-7
D1105	G-8
D1106	G-7
D1301	D-3
D1302	D-2
IC1101	F-8
IC1111	D-9
IC1131	G-7
IC1301	C-3
IC1303	D-2
IC1401	F-2
IC1452	F-4
IC1501	E-5
IC1502	C-5
IC1503	F-6
Q1103	G-8
Q1104	G-8
Q1105	G-8

3-4. PRINTED WIRING BOARD — DIGITAL BOARD (SIDE B) — • :Uses unleaded solder. • See page 11 for Circuit Boards Location.

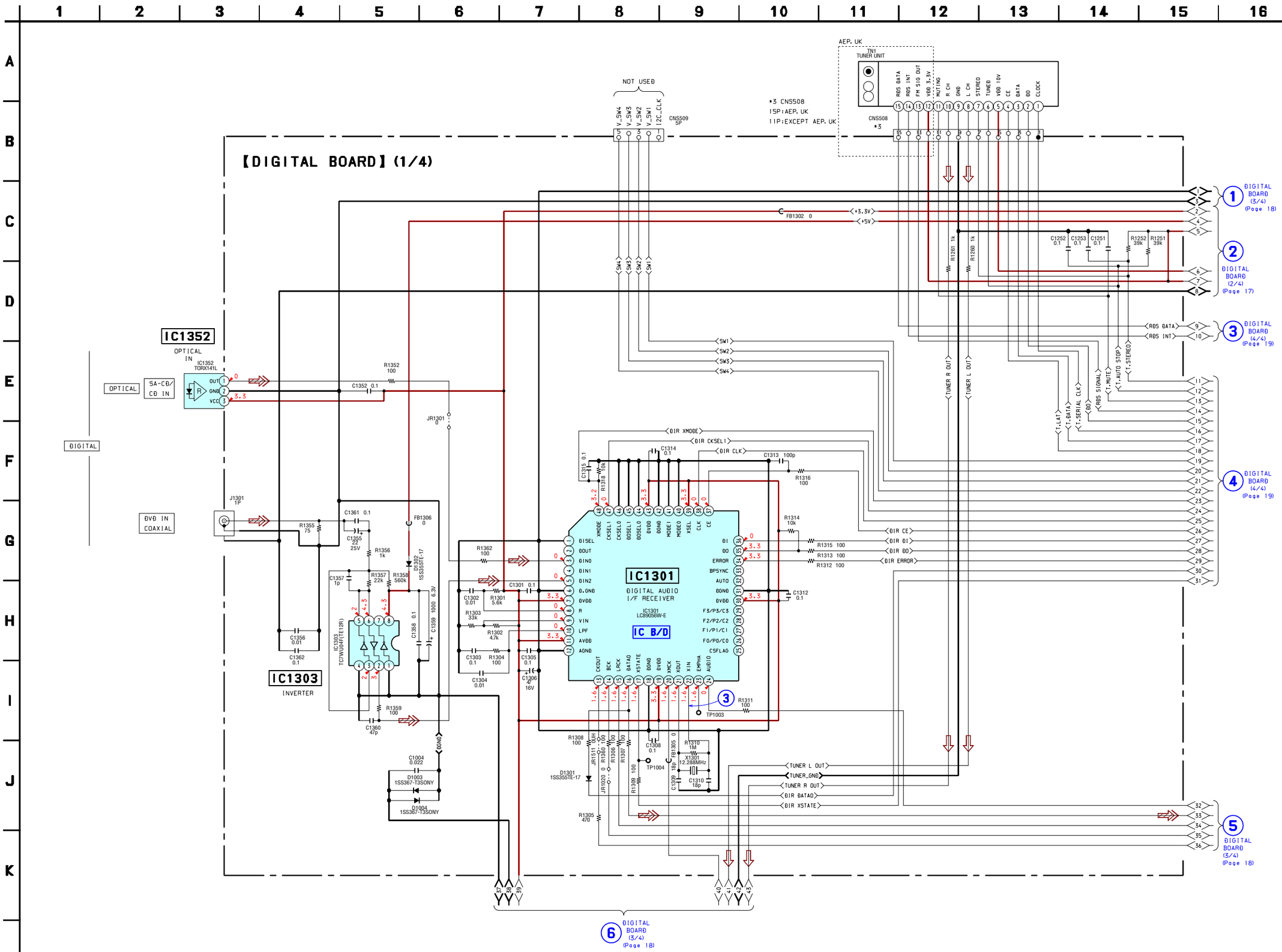


- **Semiconductor Location**

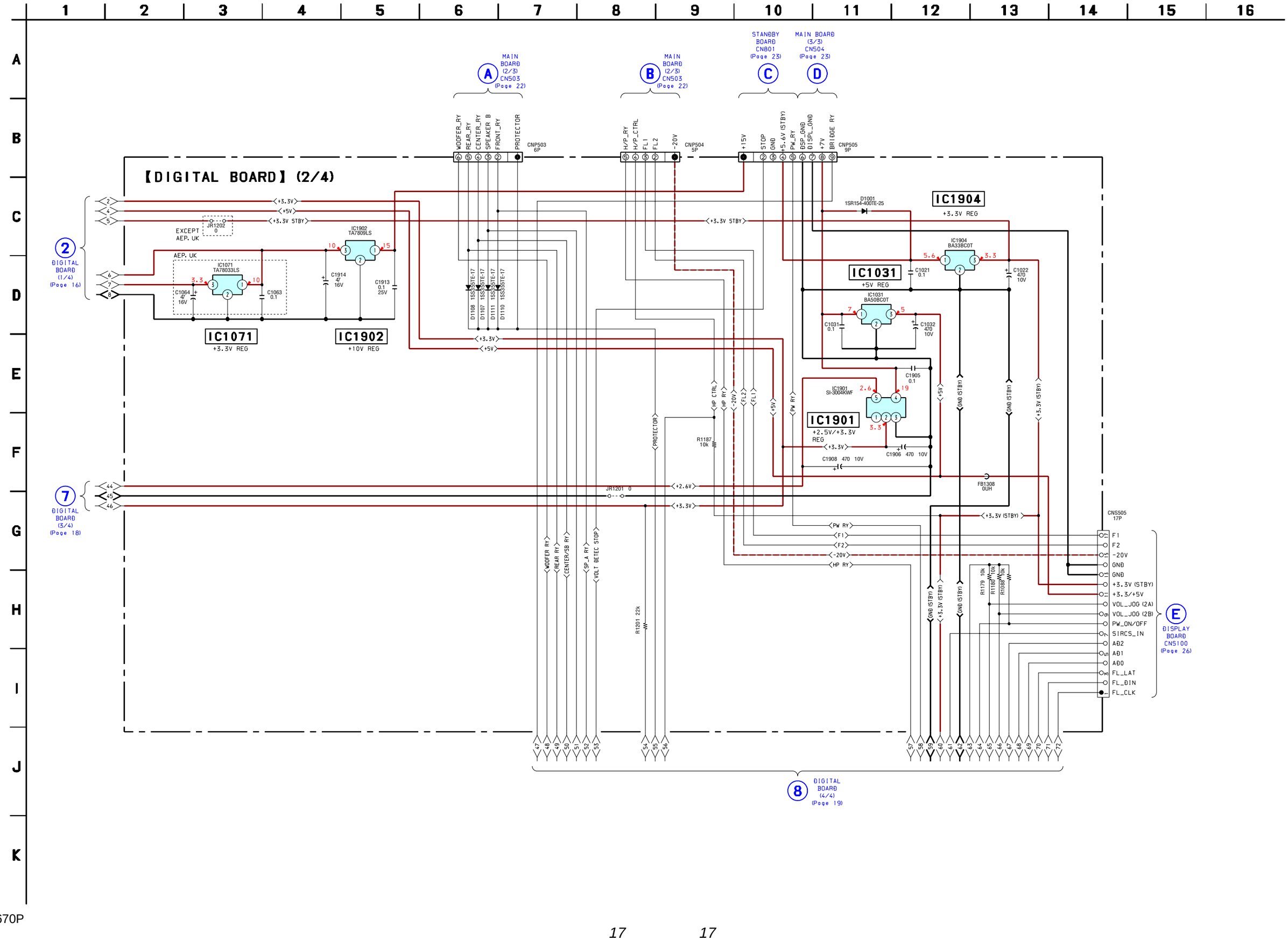
Ref. No.	Location
D1003	E-9
D1004	E-8
D1107	D-3
D1108	D-3
D1110	D-3
D1111	D-3
IC1001	F-8
IC1031	B-3
IC1071	B-5
IC1352	B-9
IC1901	B-2
IC1902	B-4
IC1904	C-2

3-5. SCHEMATIC DIAGRAM — DIGITAL BOARD (1/4) —

• See page 11 for Waveform. • See page 27 for IC Block Diagram.

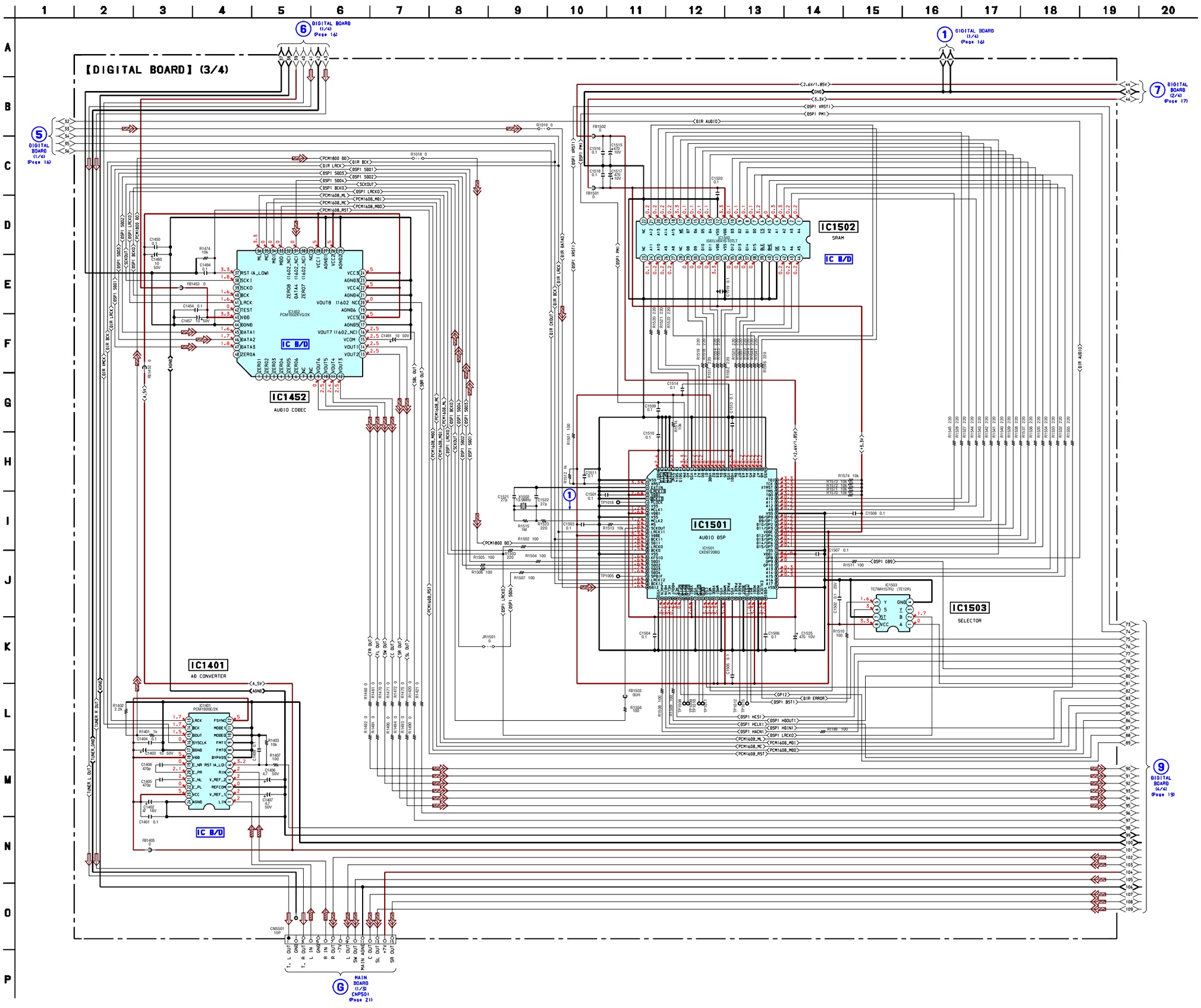


3-6. SCHEMATIC DIAGRAM — DIGITAL BOARD (2/4) —



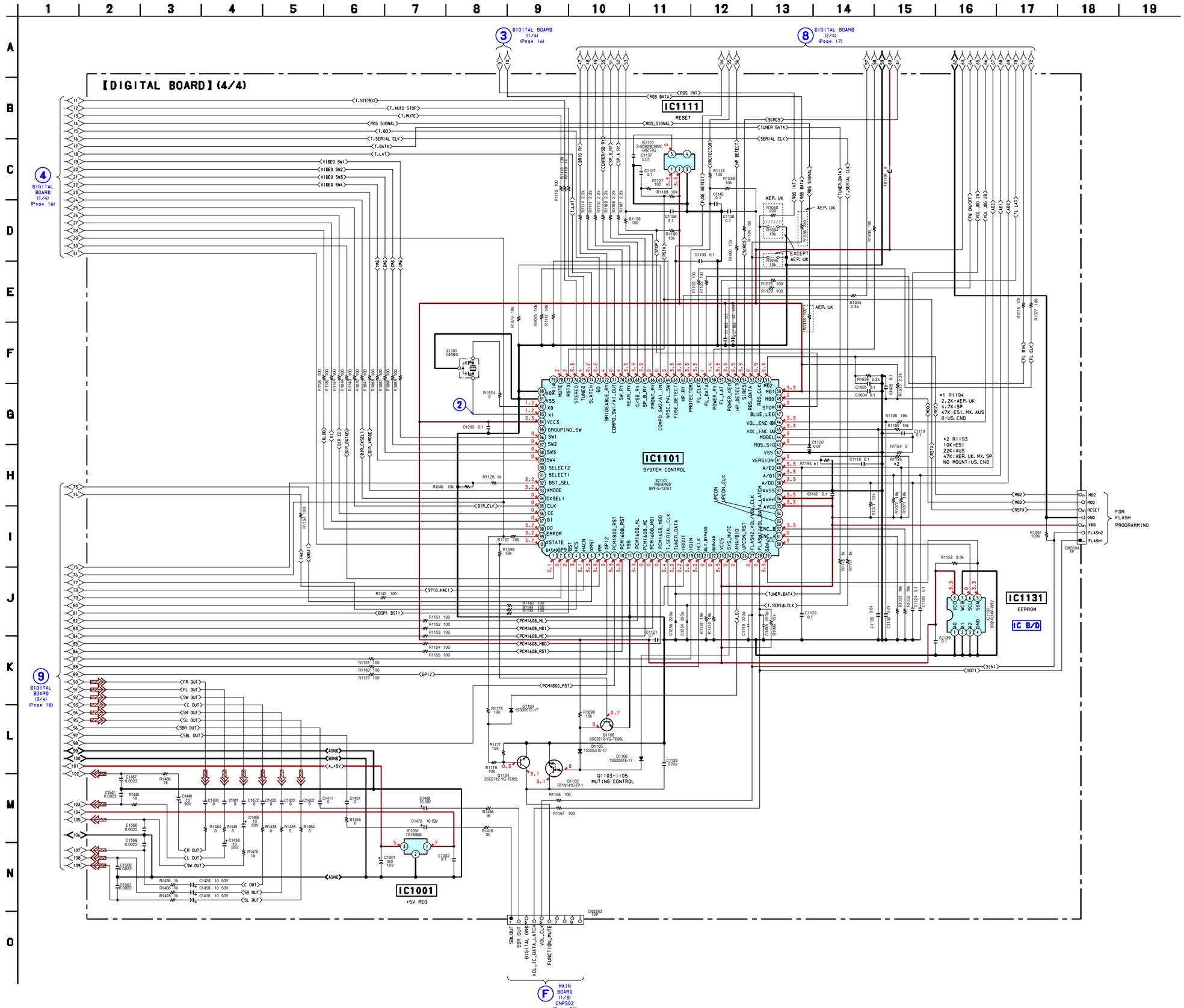
3-7. SCHEMATIC DIAGRAM — DIGITAL BOARD (3/4) —

• See page 11 for Waveform. • See page 28, 29 for IC Block Diagrams.



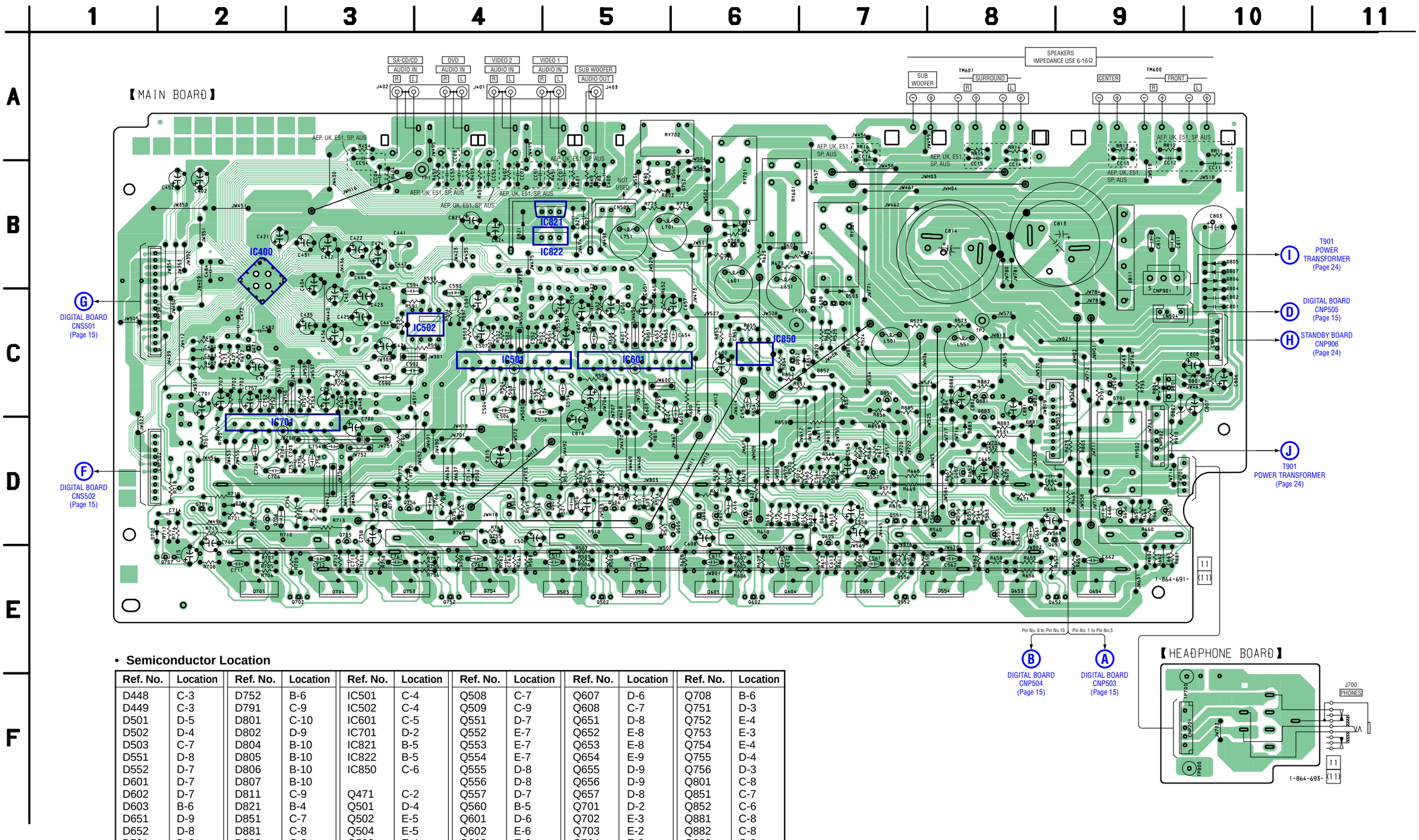
3-8. SCHEMATIC DIAGRAM — DIGITAL BOARD (4/4) —

• See page 11 for Waveform. • See page 27 for IC Block Diagram. • See page 31 for IC Pin Function Description.



3-9. PRINTED WIRING BOARD — MAIN SECTION —

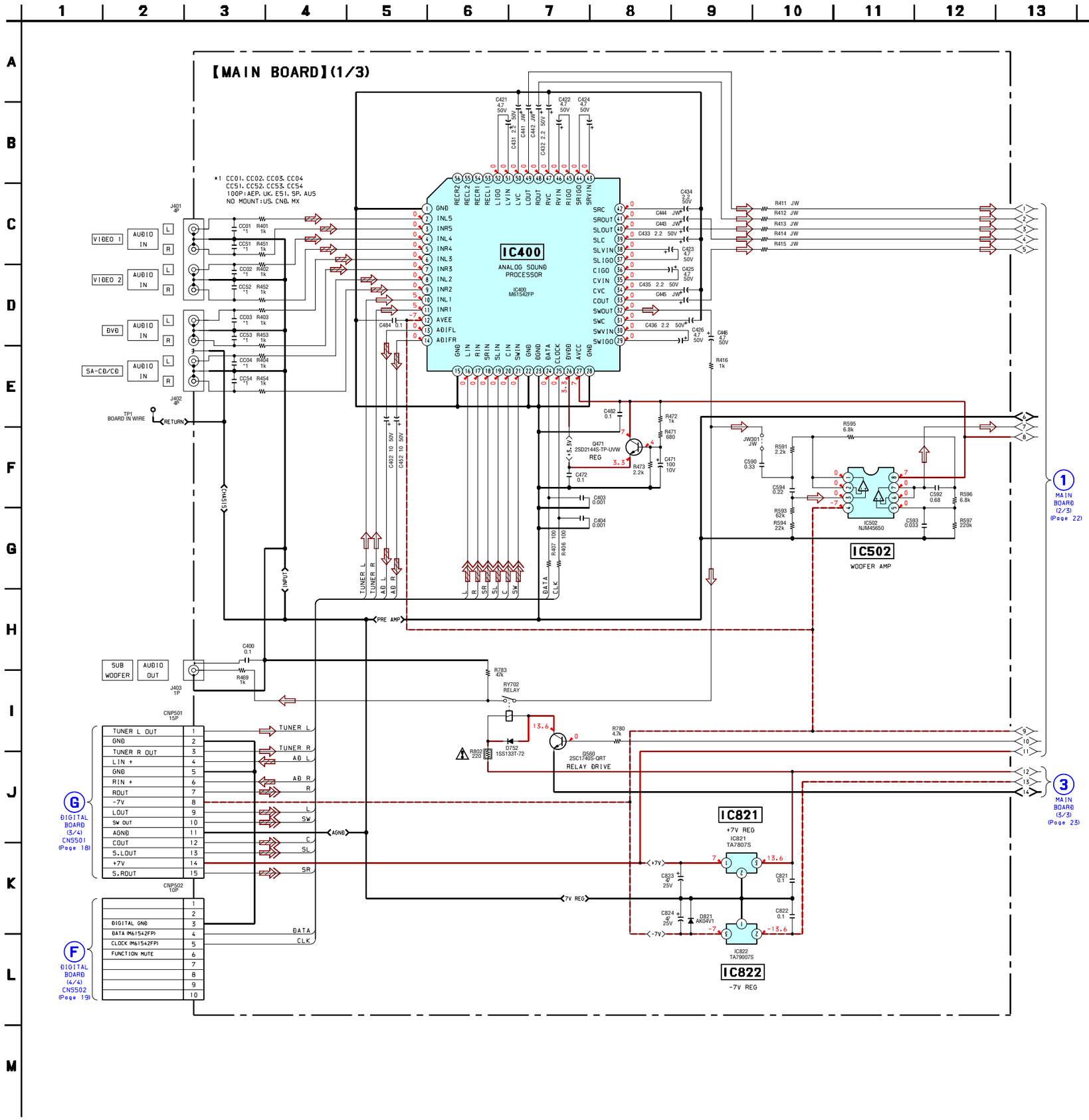
• :Uses unleaded solder. • See page 11 for Circuit Boards Location.



• **Semiconductor Location**

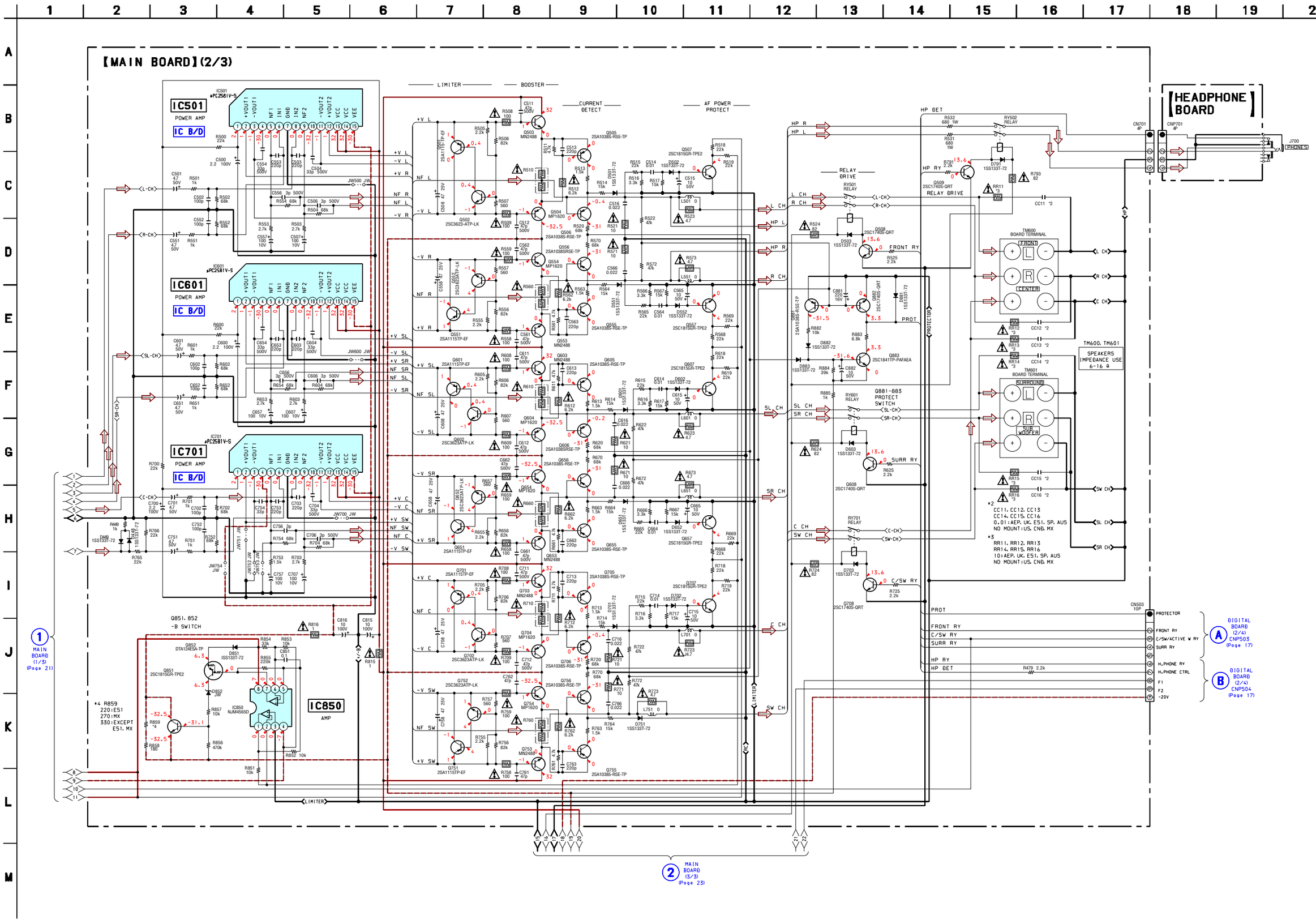
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D448	C-3	D752	B-6	IC501	C-4	Q508	C-7	Q607	D-6	Q708	B-6
D449	C-3	D791	C-9	IC502	C-4	Q509	C-9	Q608	C-7	Q751	D-3
D501	D-5	D801	C-10	IC601	C-5	Q551	D-7	Q651	D-8	Q752	E-4
D502	D-4	D802	D-9	IC701	D-2	Q552	E-7	Q652	E-8	Q753	E-3
D503	C-7	D804	B-10	IC821	B-5	Q553	E-7	Q653	E-8	Q754	E-4
D551	D-8	D805	B-10	IC822	B-5	Q554	E-7	Q654	E-9	Q755	D-4
D552	D-7	D806	B-10	IC850	C-6	Q555	D-8	Q655	D-9	Q756	D-3
D601	D-7	D807	B-10			Q556	D-8	Q656	D-9	Q801	C-8
D602	D-7	D811	C-9	Q471	C-2	Q557	D-7	Q657	D-8	Q851	C-7
D603	B-6	D821	B-4	Q501	D-4	Q560	B-5	Q701	D-2	Q852	C-6
D651	D-9	D851	C-7	Q502	E-5	Q601	D-6	Q702	E-3	Q881	C-8
D652	D-8	D881	C-8	Q504	E-5	Q602	E-6	Q703	E-2	Q882	C-8
D701	D-2	D882	C-8	Q503	E-4	Q603	E-6	Q704	E-3	Q883	C-8
D702	D-1	D883	D-8	Q505	D-6	Q604	E-6	Q705	D-3		
D703	B-6			Q506	D-5	Q605	D-7	Q706	D-2		
D751	D-4	IC400	B-2	Q507	D-5	Q606	D-6	Q707	E-2		

3-10. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) —

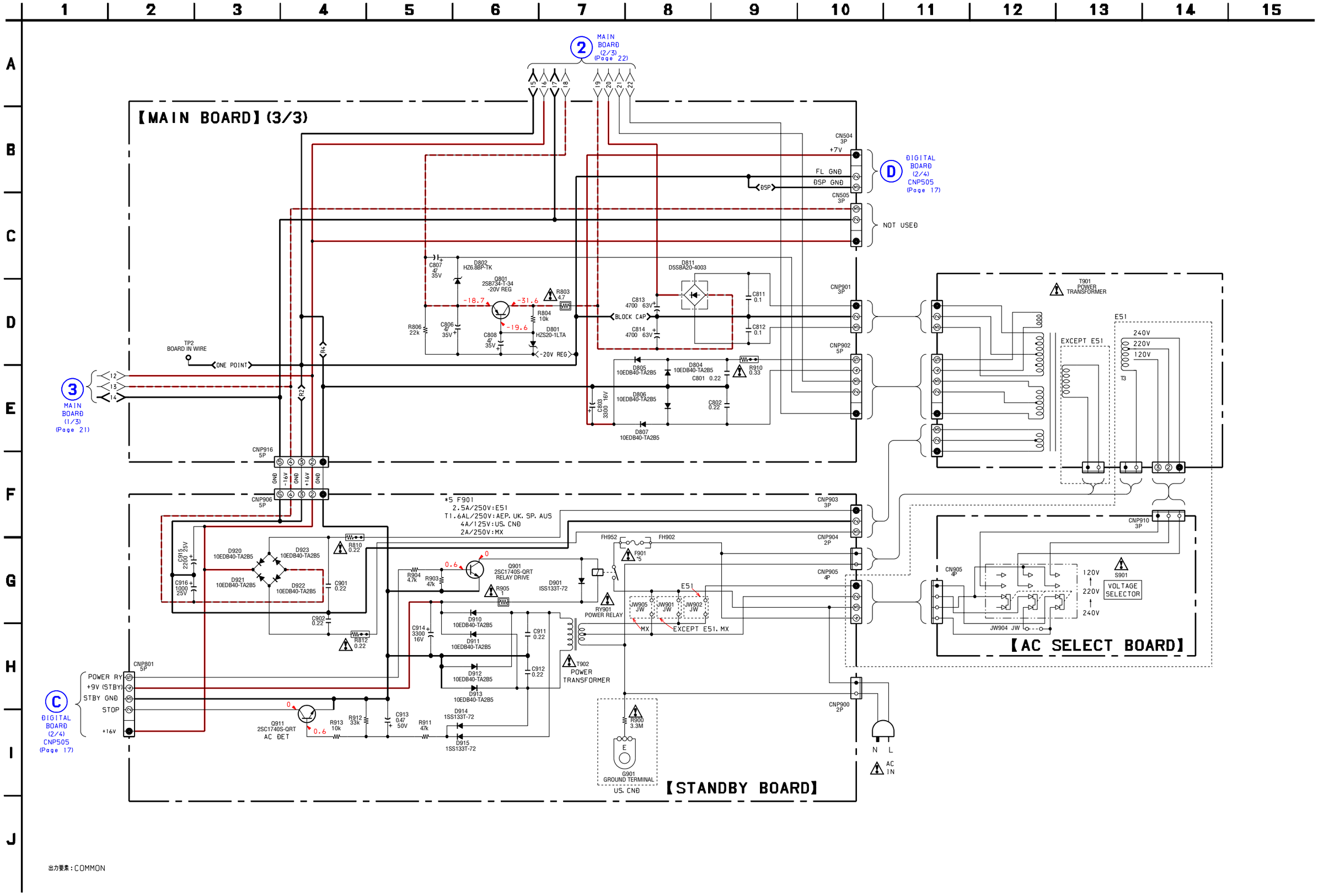


3-11. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) —

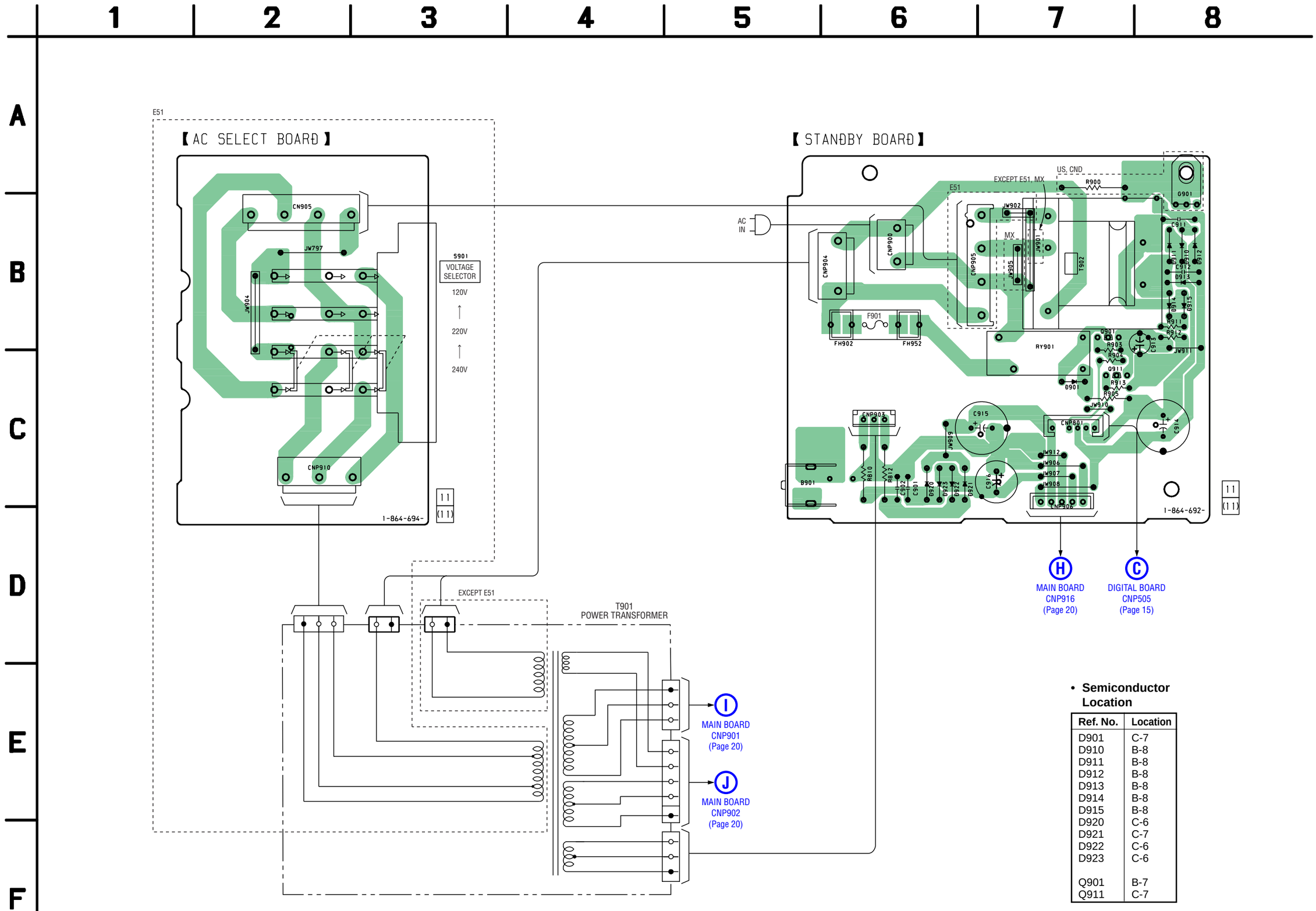
• See page 29 for IC Block Diagram.



3-12. SCHEMATIC DIAGRAM — MAIN SECTION (3/3) —



3-13. PRINTED WIRING BOARD — STANDBY SECTION — • :Uses unleaded solder. • See page 11 for Circuit Boards Location.

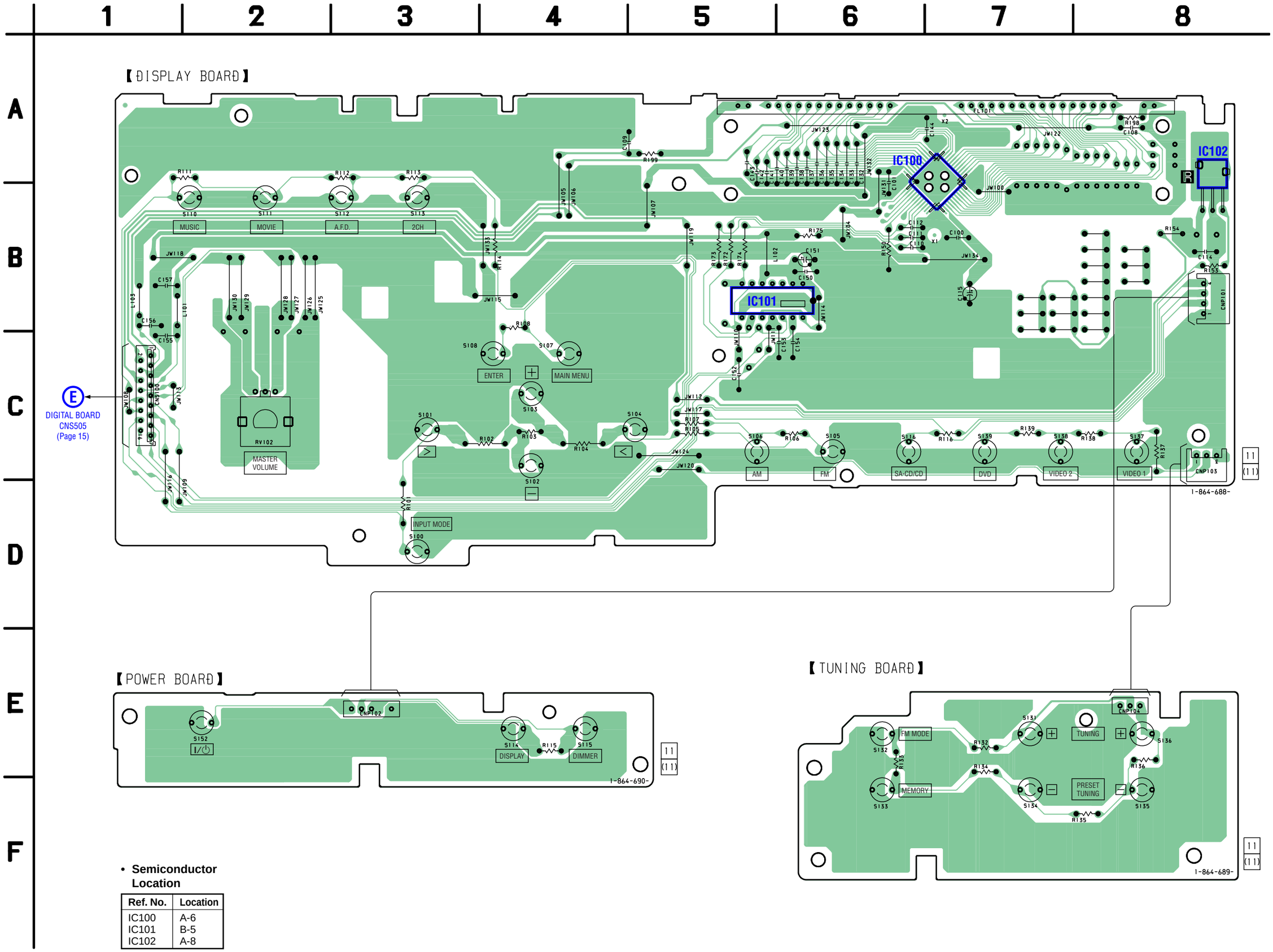


- **Semiconductor Location**

Ref. No.	Location
D901	C-7
D910	B-8
D911	B-8
D912	B-8
D913	B-8
D914	B-8
D915	B-8
D920	C-6
D921	C-7
D922	C-6
D923	C-6
Q901	B-7
Q911	C-7

3-14. PRINTED WIRING BOARD — DISPLAY SECTION —

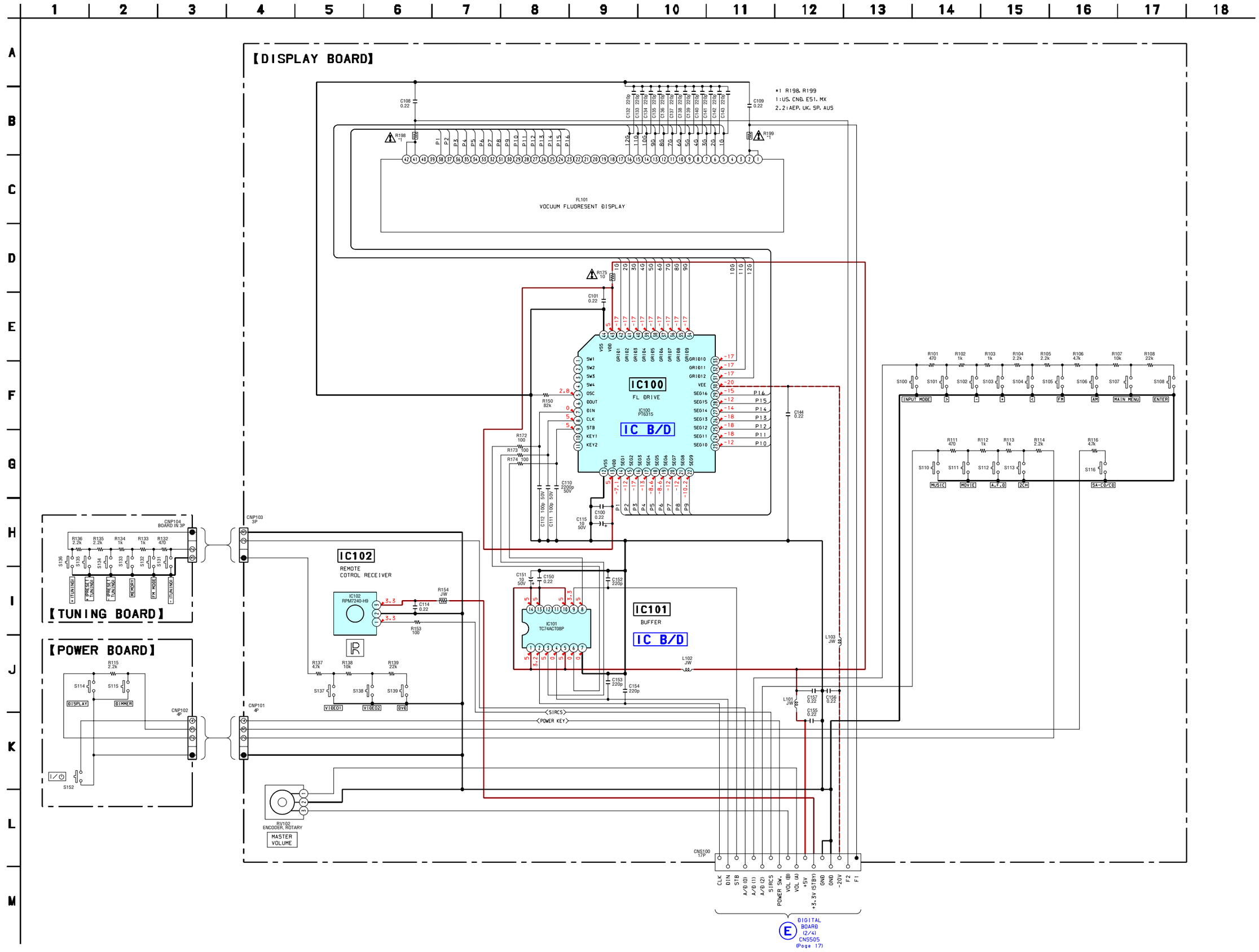
• :Uses unleaded solder. • See page 11 for Circuit Boards Location.



• **Semiconductor Location**

Ref. No.	Location
IC100	A-6
IC101	B-5
IC102	A-8

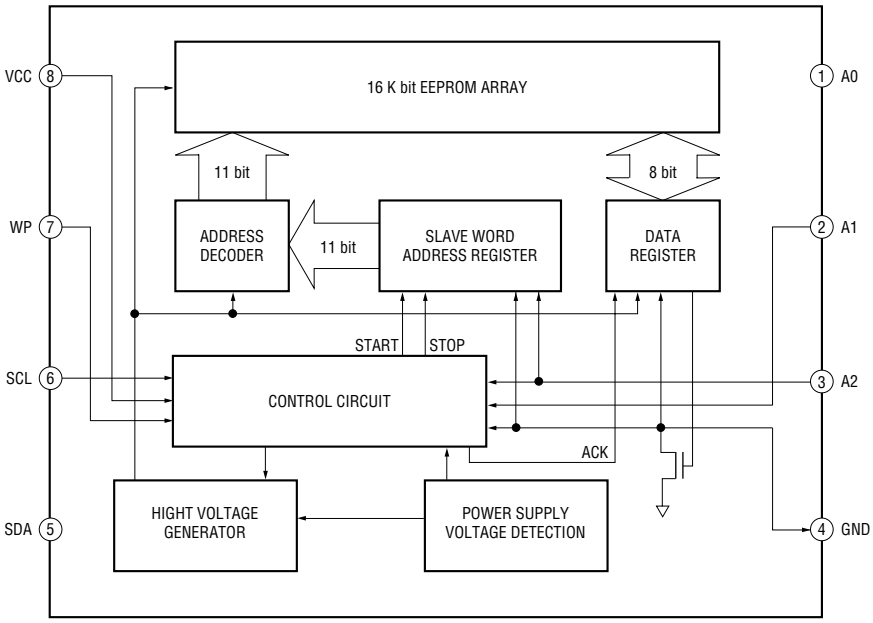
3-15. SCHEMATIC DIAGRAM — DISPLAY SECTION — • See page 30 for IC Block Diagrams.



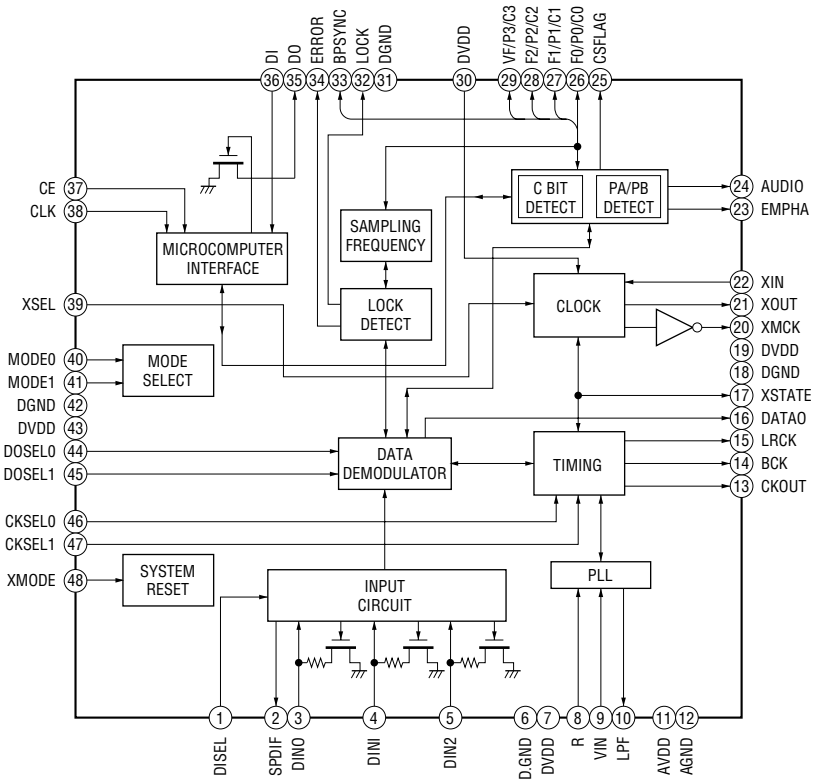
- **IC Block Diagrams**

– DIGITAL Board –

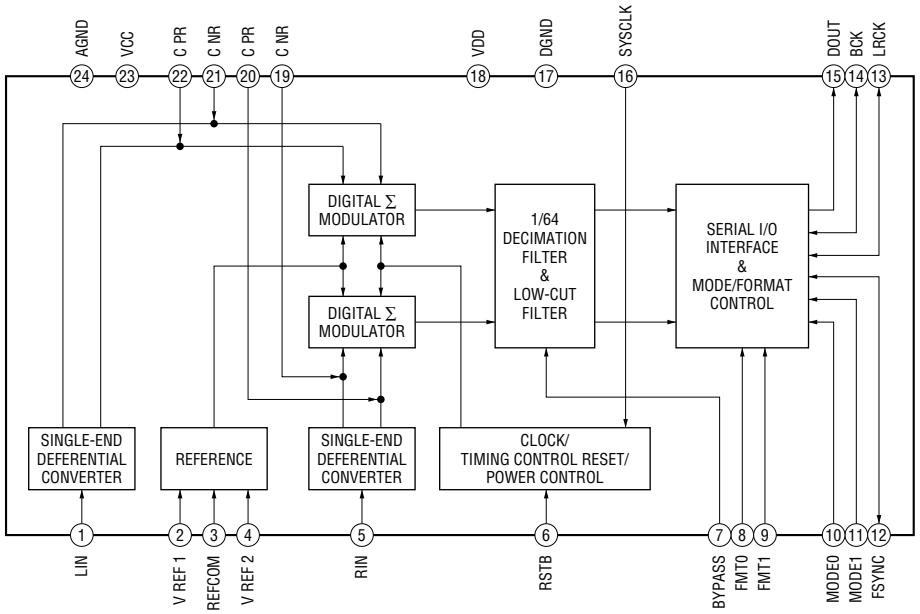
IC1131 BR24L16F-WE2



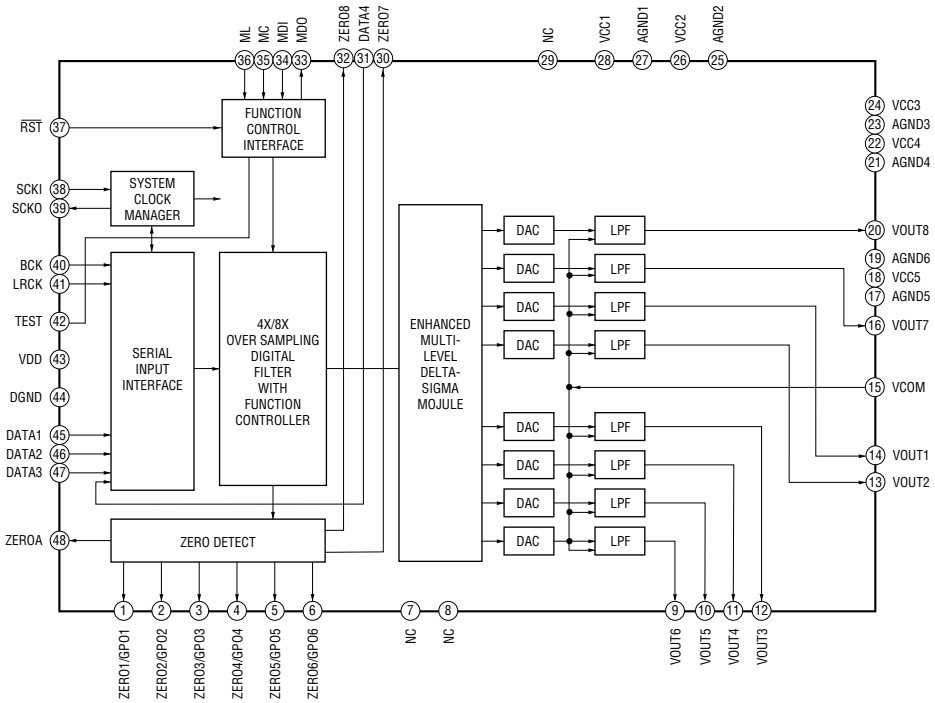
IC1301 LC89056W-E



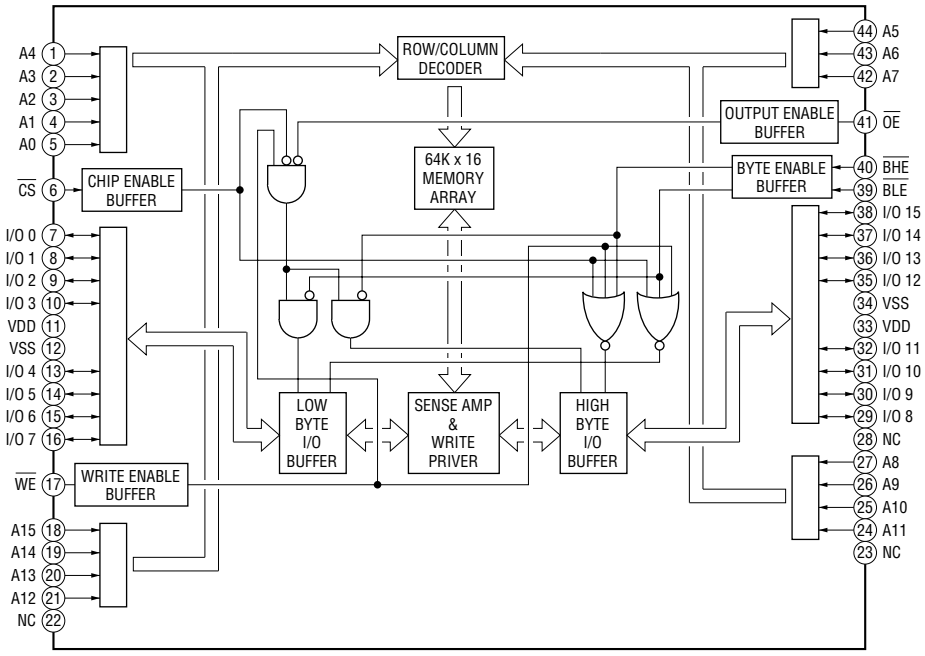
IC1401 PCM1800E/2K



IC1452 PCM1602KYG/2K

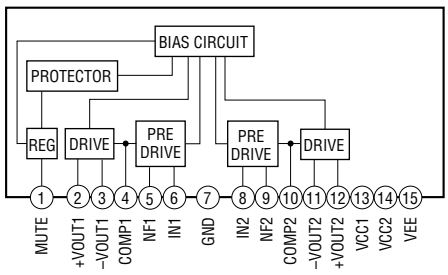


IC1502 IS61LV6416-10TLT



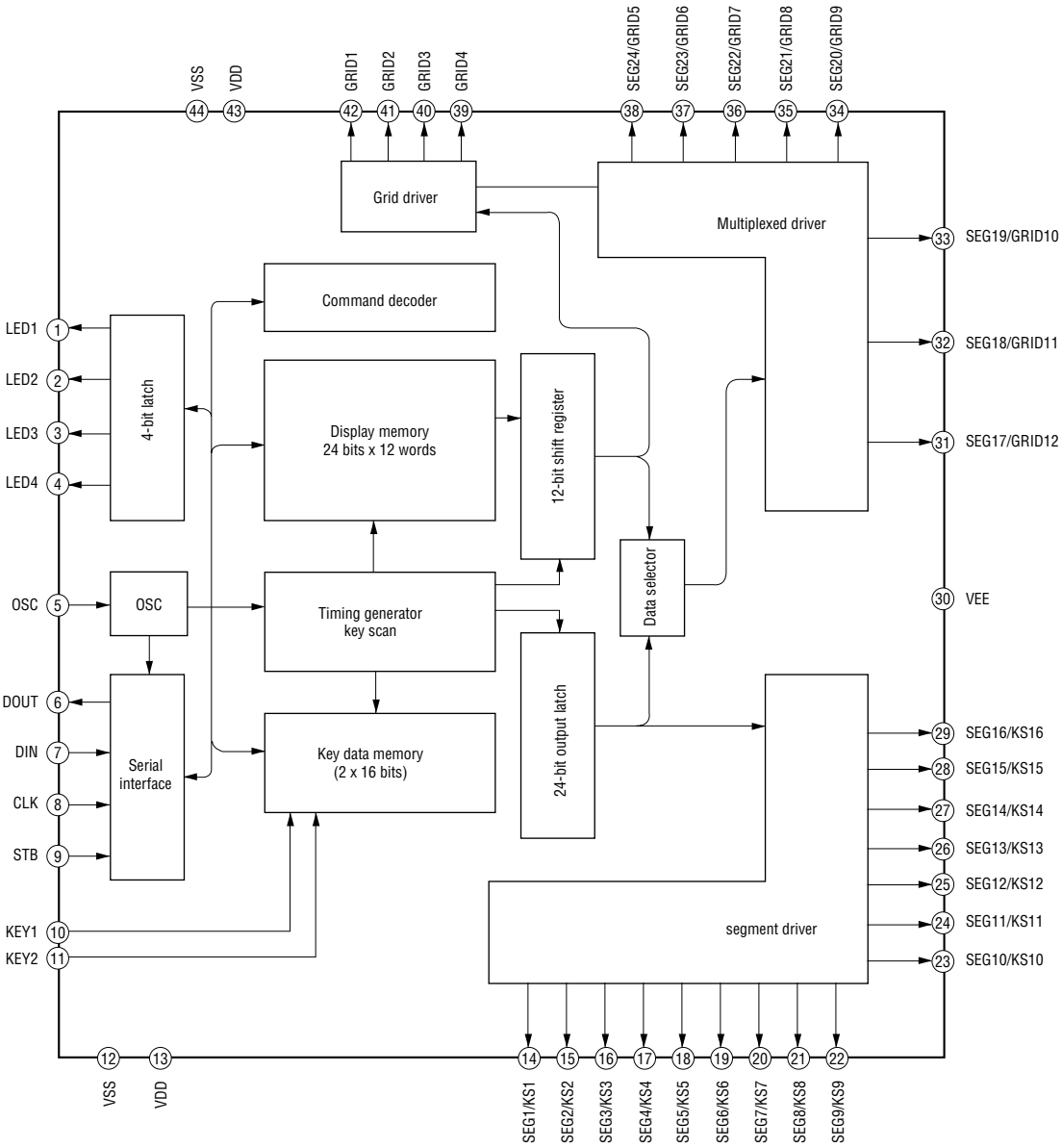
– MAIN Board –

IC501,601,701 uPC2581V-S

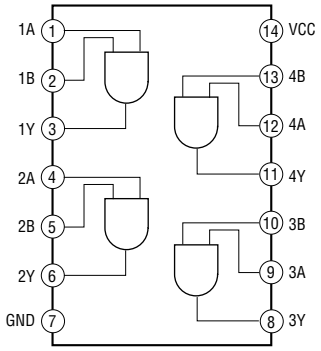


– DISPLAY Board –

IC100 PT6315



IC101 TC74ACT08P



• IC Pin Function Description

DIGITAL BOARD IC1101 MB90488BPF-G-137E1 (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Description
1	DATAO	I	Audio data signal input from DIR
2	GP9	I	GP9 signal input from DSP
3	BST	O	BST signal output to DSP
4	HCS	O	HCS signal output to DSP
5	HACN	I	HACN signal input from DSP
6	XRST	O	Reset signal output to DSP
7	PM	O	PM signal output to DSP
8	GP12	O	GP12 signal output to DSP
9	PCM1800RST	O	IC reset signal output to ADC
10	PCM1608RST	O	IC reset signal output to DAC
11	VSS	—	Ground terminal
12	PCM1608ML	O	Latch signal output to DAC
13	PCM1608MC	O	Clock signal output to DAC
14	PCM1608MDI	O	IC data output to DAC
15	PCM1608MDO	I	IC data input to DAC
16	T_CLK	O	Tuner clock signal output terminal
17	T_DI	O	Tuner data signal output terminal
18	HDOUT	I	HDOUT signal input from DSP
19	HDIN	O	HDIN signal output to DSP
20	HCLK	O	Clock signal output to DSP
21	DLY_B PASS	—	Connected to ground terminal
22	DIR/AD	—	Connected to ground terminal
23	VCC5	—	Power supply
24	SYS_MUTE	O	Muting and error signal output
25	ANA/DIG	O	Analog signal or digital signal output terminal
26	UPCON_RST	—	Not used
27	FLASH2/VOL_CL	O	Volume IC clock signal output terminal
28	FLASH1/VOL_DA	O	Volume IC data and latch signal output terminal
29	SDA	I	EEPROM data signal input terminal
30	SCL	O	EEPROM clock signal output terminal
31	ENC_A	—	Short to ground terminal
32	ENC_B	—	Short to ground terminal
33	UPCON	—	Not used
34	UPCON_CLK	—	Not used
35	AVCC	—	Analog power supply
36	AVRH	I	Analog reference voltage input
37	AVSS	—	Analog ground terminal
38	A/D0	I	Function key push signal input
39	A/D1	I	Function key push signal input
40	A/D2	I	Function key push signal input
41	VERSION	I	Version setting input terminal (DESTINATION)
42	VSS	—	Ground terminal
43	RDS SIG	I	RDS signal detect input
44	MODEL	I	Version setting input (MODEL)
45	VOL ENCODER (A)	I	Volume signal input from rotary encoder
46	VOL ENCODER (B)	I	Volume signal input from rotary encoder
47	BLUE LED	—	Not used

Pin No.	Pin Name	I/O	Description
48	STOP	I	AC off detect signal input
49	MD0	I	Operation mode setting input
50	MD1	I	Operation mode setting input
51	MD2	I	Operation mode setting input
52	RDS CLOCK	I	RDS clock signal input (Not used)
53	RDS DATA	I	RDS data signal input (Not used)
54	SIRCS	I	Data signal input from the remote control sensor
55	HP DETECT	I	Headphone signal input
56	POWER KEY	I	Power switch key detect signal input
57	FL_LAT	O	FL driver latch signal output terminal
58	POWER RY	O	Power relay control signal output
59	FL_DATA	O	FL driver signal output terminal
60	FL_CLK	O	FL driver clock signal output terminal
61	PROTECTOR	I	Protector status detect signal input
62	HP_RY	O	Headphone relay control signal output
63	FUSE DETECT	I	Fuse detect signal input
64	NTSC_PAL_SW	—	Short to ground terminal
65	COMPO_SW2	—	Short to ground terminal
66	FRONT_RY	O	Front speaker relay control signal output
67	SP_B RY	O	Front speaker B relay control signal output
68	C/SW RY	O	Center speaker or Subwoofer control signal output
69	REAR RY	O	Rear speaker relay control signal output
70	SW_RY	—	Short to ground terminal
71	COMPO_SW1	—	Short to ground terminal
72	BRIGEABLE_RY	O	Bridgeable relay control
73	DO	I	Frequency data signal input from the tuner
74	SLATCH	O	Latch signal output to the tuner
75	TUNED	I	Tuning a frequency signal input from the tuner
76	STEREO	I	Stereo tuning signal input from the tuner
77	RSTX	I	System reset
78	MUTE	O	Muting signal output to the tuner
79	X1A	—	Not used
80	X0A	—	Ground terminal
81	VSS	—	Ground terminal
82	X0	—	Connection for a crystal resonator
83	X1	—	Connection for a crystal resonator
84	VCC3	—	Power supply
85	GROUPING_SW	—	Not used
86	SW1	O	Video select control signal output
87	SW2	O	Video select control signal output
88	SW3	O	Video select control signal output
89	SW4	O	Video select control signal output
90	SELECT2	—	Not used
91	SELECT1	—	Not used
92	BST_SEL	O	BST signal output terminal
93	XMODE	O	Reset signal output to DIR
94	CKSEL 1	O	CKSEL control signal to DIR
95	CLK	O	Clock signal output to DIR
96	CE	O	Chip enable signal output to DIR

Pin No.	Pin Name	I/O	Description
97	DI	O	Data signal output to DIR
98	DO	I	Data signal input from DIR
99	ERROR	I	PLL error muting signal input from DIR
100	XSTATE	I	XSTATE data signal input from DIR

SECTION 4
EXPLODED VIEWS

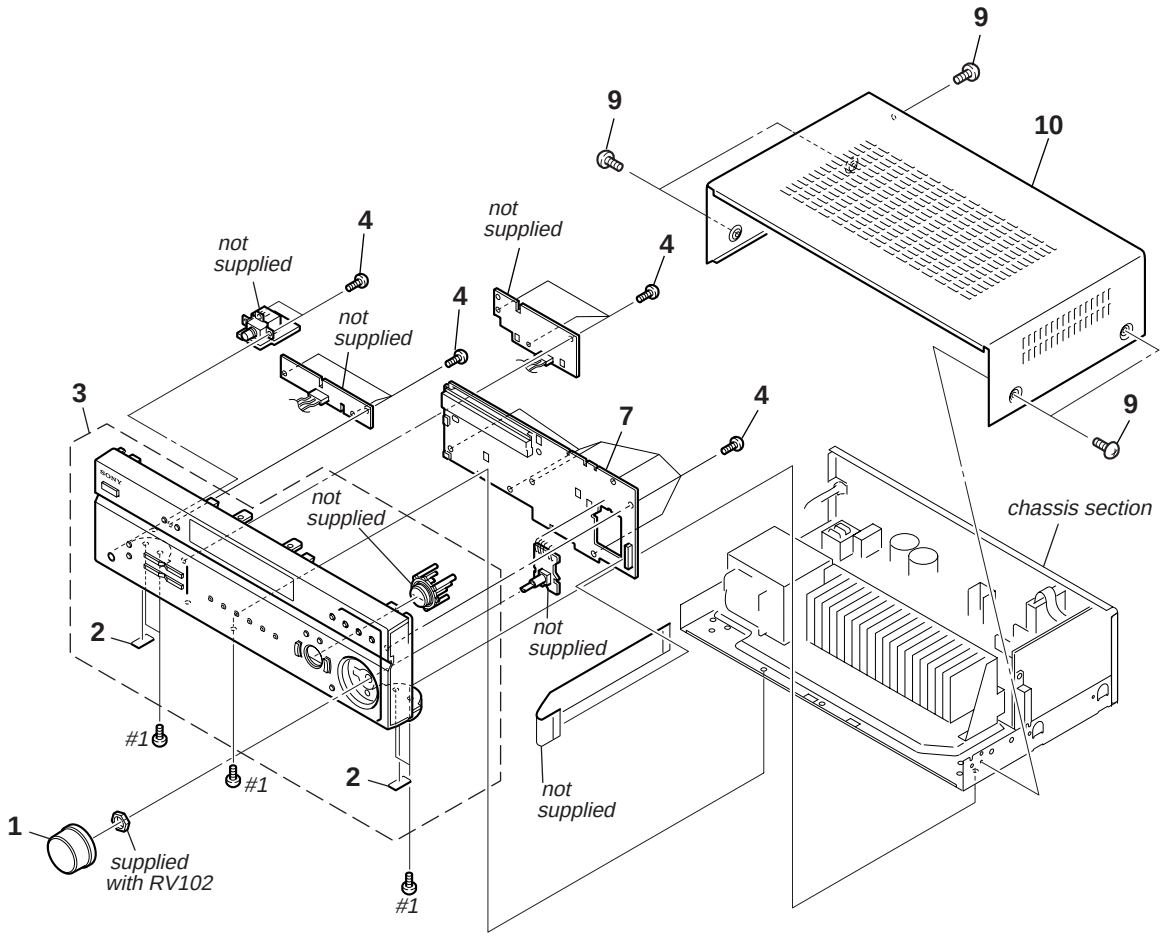
NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Abbreviation
  AUS : Australian model
  CND : Canadian model
  E51 : Chilean and Peruvian models
  MX : Mexican model
  SP : Singapore model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

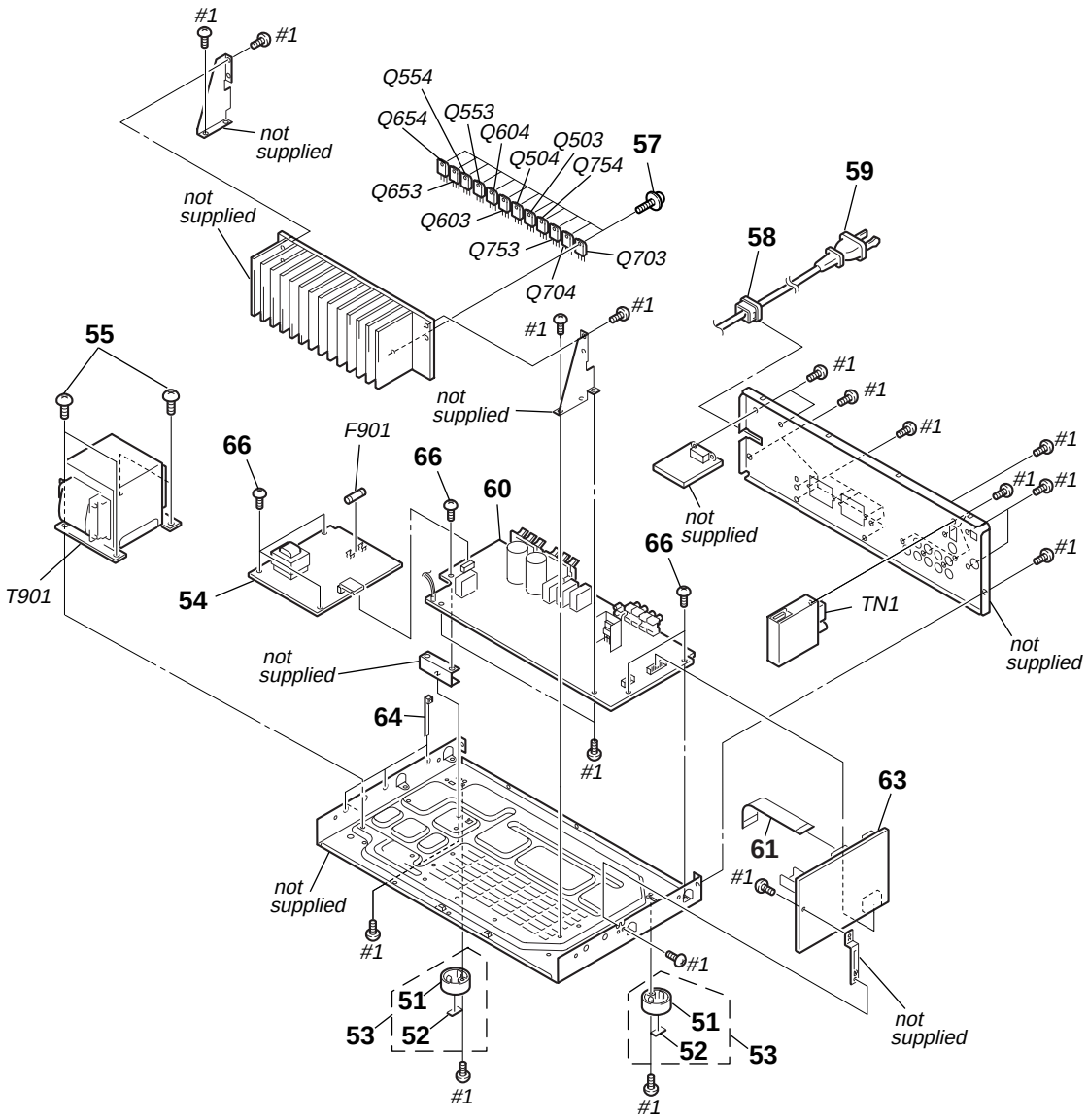
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

4-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	4-232-113-31	KNOB (VOL)	
2	4-977-358-01	CUSHION	
3	X-2024-397-1	FRONT PANEL ASSY (US)	
3	X-2024-527-1	FRONT PANEL ASSY (AEP, UK)	
3	X-2024-543-1	FRONT PANEL ASSY (CND, E51, MX, SP, AUS)	
4	3-087-053-01	+BVTP2.6 (3CR)	
7	A-1082-615-A	DISPLAY BOARD, COMPLETE	(US, CND, E51, MX)
7	A-1108-790-A	DISPLAY BOARD, COMPLETE	(AEP, UK, SP, AUS)
9	3-363-099-11	SCREW (CASE 3 TP2)	
10	4-245-939-61	CASE	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

4-2. CHASSIS SECTION-1

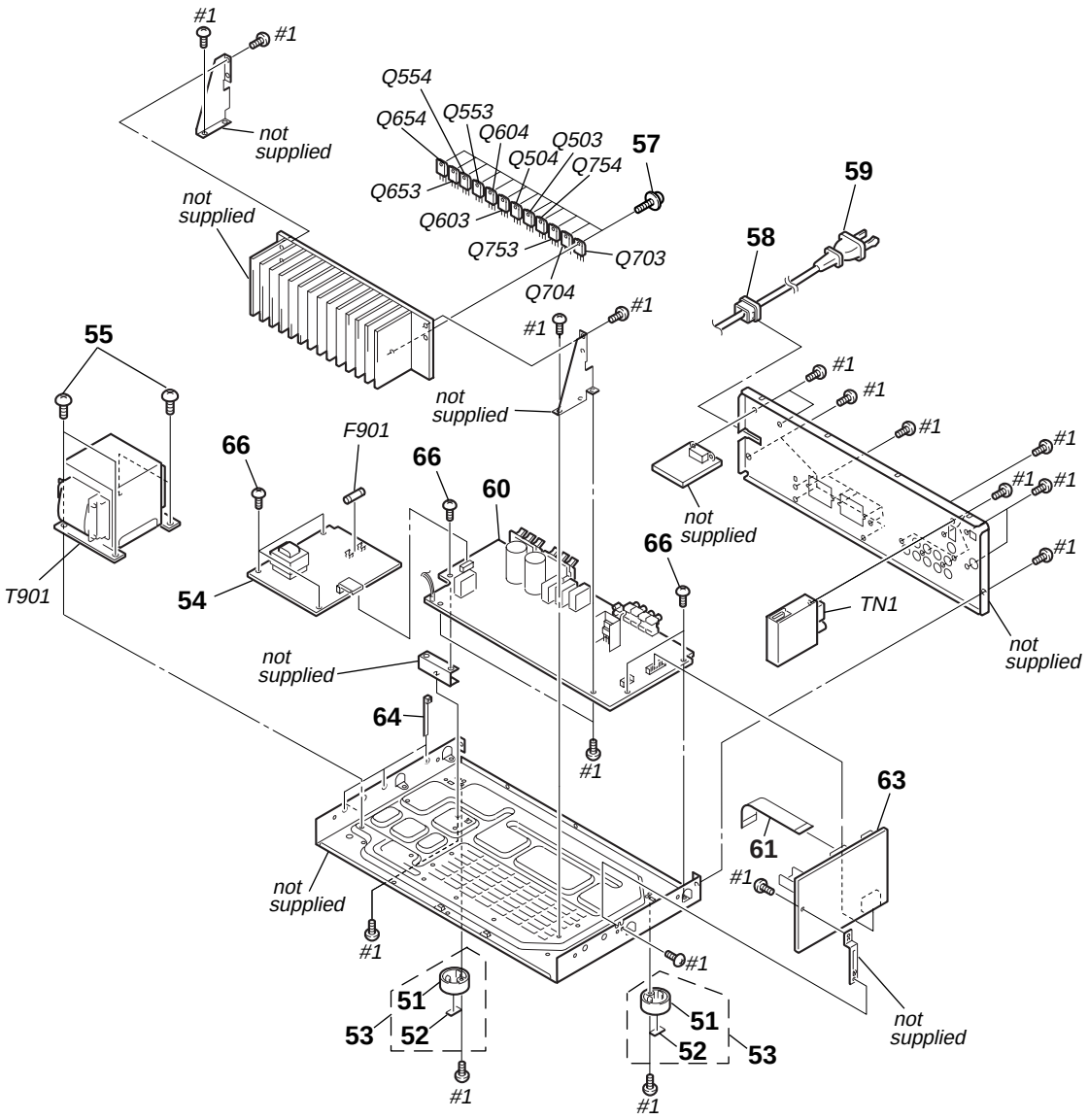


Ref. No.	Part No.	Description	Remark
51	4-232-237-01	FOOT (DIA. 30)	
52	4-977-358-01	CUSHION	
53	X-4953-448-1	FOOT ASSY	
54	A-1082-613-A	STANDBY BOARD, COMPLETE (US, CND)	
54	A-1083-592-A	STANDBY BOARD, COMPLETE	(AEP, UK, SP, AUS)
54	A-1083-669-A	STANDBY BOARD, COMPLETE (MX)	
54	A-1083-980-A	STANDBY BOARD, COMPLETE (E51)	
55	4-249-675-01	+BV SUMITITE S 4X6 ROUND	
57	3-905-609-01	SCREW (TRANSISTOR)	
* 58	3-703-244-00	BUSHING (2104), CORD	
⚠59	1-777-071-23	CORD, POWER (AEP, UK, E51, SP)	
⚠59	1-783-820-11	CORD, POWER (US, CND)	
⚠59	1-827-295-22	CORD, POWER (AUS)	
⚠59	1-829-627-11	POWER-SUPPLY CORD (MX)	
60	A-1082-609-A	MAIN BOARD, COMPLETE (US, CND)	
60	A-1083-591-A	MAIN BOARD, COMPLETE (AEP, UK, SP, AUS)	
60	A-1083-969-A	MAIN BOARD, COMPLETE (MX)	
60	A-1108-531-A	MAIN BOARD, COMPLETE (E51)	
61	1-828-963-11	WIRE (FLAT TYPE) (11 CORE)	(EXCEPT AEP, UK)
61	1-828-980-11	WIRE (FLAT TYPE) (15 CORE) (AEP, UK)	
63	A-1082-618-A	DIGITAL BOARD, COMPLETE (US, CND)	
63	A-1083-438-A	DIGITAL BOARD, COMPLETE (AEP, UK)	
63	A-1083-593-A	DIGITAL BOARD, COMPLETE (SP)	
63	A-1083-642-A	DIGITAL BOARD, COMPLETE (AUS)	
63	A-1083-670-A	DIGITAL BOARD, COMPLETE (MX)	

– Continued on page 36 –

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-3. CHASSIS SECTION-2



Ref. No.	Part No.	Description	Remark
– Continued from page 35 –			
63	A-1083-982-A	DIGITAL BOARD, COMPLETE (E51)	
64	3-701-748-00	CLAMP	
66	3-077-331-21	+BV3 (3-CR)	
⚠F901	1-532-464-32	FUSE 2.5A/250V (E51)	
⚠F901	1-532-503-32	FUSE T1.6AL/250V (AEP, UK, SP, AUS)	
⚠F901	1-533-452-12	FUSE, GLASS TUBE (DIA. 5) 4A/125V	(US, CND)
⚠F901	1-533-468-12	FUSE, GLASS TUBE (DIA. 5) 2A/250V (MX)	
Q503	6-702-390-01	IC MN2488-OPY-MK	
Q504	6-702-391-01	IC MP1620-OPY-MK	
Q553	6-702-390-01	IC MN2488-OPY-MK	
Q554	6-702-391-01	IC MP1620-OPY-MK	
Q603	6-702-390-01	IC MN2488-OPY-MK	
Q604	6-702-391-01	IC MP1620-OPY-MK	
Q653	6-702-390-01	IC MN2488-OPY-MK	
Q654	6-702-391-01	IC MP1620-OPY-MK	

Ref. No.	Part No.	Description	Remark
Q703	6-702-390-01	IC MN2488-OPY-MK	
Q704	6-702-391-01	IC MP1620-OPY-MK	
Q753	6-702-390-01	IC MN2488-OPY-MK	
Q754	6-702-391-01	IC MP1620-OPY-MK	
⚠T901	1-443-185-11	POWER TRANSFORMER (US, CND)	
⚠T901	1-443-186-11	POWER TRANSFORMER (E51)	
⚠T901	1-443-521-11	POWER TRANSFORMER (MX)	
⚠T901	1-443-629-11	POWER TRANSFORMER (AEP, UK, SP, AUS)	
TN1	1-693-675-11	TUNER UNIT (MX)	
TN1	1-693-675-21	TUNER UNIT (US, CND, E51)	
TN1	1-693-676-21	TUNER UNIT (AEP, UK)	
TN1	1-693-678-11	TUNER UNIT (SP, AUS)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 5
ELECTRICAL PARTS LIST

AC SELECT | DIGITAL

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- COILS
  uH: µH
- CAPACITORS
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- Abbreviation
  AUS : Australian model
  CND : Canadian model
  E51 : Chilean and Peruvian models
  MX : Mexican model
  SP : Singapore model

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
		AC SELECT BOARD (E51)			
		**********			
		< CONNECTOR >			
CN905	1-568-106-11	PIN, CONNECTOR (3.96mm PITCH) 4P (E51)			
		< CONNECTOR >			
* CNP910	1-564-687-11	PIN, CONNECTOR (3.96mm PITCH) 3P (E51)			
		< SWITCH >			
⚠S901	1-571-437-21	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR)(E51)			
**********					
	A-1082-618-A	DIGITAL BOARD, COMPLETE (US, CND)			
	A-1083-438-A	DIGITAL BOARD, COMPLETE (AEP, UK)			
	A-1083-593-A	DIGITAL BOARD, COMPLETE (SP)			
	A-1083-642-A	DIGITAL BOARD, COMPLETE (AUS)			
	A-1083-670-A	DIGITAL BOARD, COMPLETE (MX)			
	A-1083-982-A	DIGITAL BOARD, COMPLETE (E51)			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
		< CAPACITOR >			
C1001	1-126-925-91	ELECT	470uF	20%	10V
C1002	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1004	1-164-227-11	CERAMIC CHIP	0.022uF	10%	16V
C1021	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1022	1-126-925-91	ELECT	470uF	20%	10V
C1031	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1032	1-126-925-91	ELECT	470uF	20%	10V
C1063	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V (AEP, UK)
C1064	1-126-947-11	ELECT	47uF	20%	16V (AEP, UK)
C1100	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1102	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1103	1-126-947-11	ELECT	47uF	20%	16V
C1107	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1108	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1118	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1119	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1120	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1121	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1122	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1123	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1124	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1126	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1129	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1130	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1137	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1138	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1139	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1140	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1142	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1149	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1251	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1252	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1253	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1254	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1255	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1299	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1301	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1302	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1303	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1304	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1305	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1306	1-126-947-11	ELECT	47uF	20%	16V
C1308	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1309	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C1310	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C1312	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1313	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1314	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1315	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1352	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1355	1-104-662-91	ELECT	22uF	20%	25V
C1356	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1357	1-162-905-11	CERAMIC CHIP	1PF	0.25PF	50V
C1358	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1359	1-126-916-11	ELECT	1000uF	20%	6.3V
C1360	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1361	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1362	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1401	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1402	1-126-947-11	ELECT	47uF	20%	16V
C1403	1-126-964-11	ELECT	10uF	20%	50V
C1404	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V

DIGITAL

Ref. No.	Part No.	Description			Remark
C1405	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C1406	1-126-963-11	ELECT	4.7uF	20%	50V
C1407	1-126-963-11	ELECT	4.7uF	20%	50V
C1408	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C1409	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1411	1-216-864-11	SHORT CHIP	0		
C1418	1-126-964-11	ELECT	10uF	20%	50V
C1422	1-216-864-11	SHORT CHIP	0		
C1428	1-126-964-11	ELECT	10uF	20%	50V
C1432	1-216-864-11	SHORT CHIP	0		
C1438	1-126-964-11	ELECT	10uF	20%	50V
C1441	1-216-864-11	SHORT CHIP	0		
C1448	1-126-964-11	ELECT	10uF	20%	50V
C1450	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1451	1-216-864-11	SHORT CHIP	0		
C1454	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1457	1-126-964-11	ELECT	10uF	20%	50V
C1458	1-126-964-11	ELECT	10uF	20%	50V
C1460	1-126-964-11	ELECT	10uF	20%	50V
C1462	1-216-864-11	SHORT CHIP	0		
C1468	1-126-964-11	ELECT	10uF	20%	50V
C1472	1-216-864-11	SHORT CHIP	0		
C1478	1-126-964-11	ELECT	10uF	20%	50V
C1483	1-216-864-11	SHORT CHIP	0		
C1487	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1488	1-126-964-11	ELECT	10uF	20%	50V
C1491	1-126-964-11	ELECT	10uF	20%	50V
C1494	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1495	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1501	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1502	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1503	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1504	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1505	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1506	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1507	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1508	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1509	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1510	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1511	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1513	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1514	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1515	1-126-925-91	ELECT	470uF	20%	10V
C1516	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1517	1-126-925-91	ELECT	470uF	20%	10V
C1518	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1519	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1520	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1521	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C1522	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C1525	1-126-925-91	ELECT	470uF	20%	10V
C1547	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1566	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1567	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1568	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1569	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1604	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1605	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1620	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1905	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1906	1-126-925-91	ELECT	470uF	20%	10V
C1908	1-126-925-91	ELECT	470uF	20%	10V
C1913	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1914	1-126-947-11	ELECT	47uF	20%	16V

< CONNECTOR >

CNP503	1-779-977-11	PIN, CONNECTOR 6P
CNP504	1-784-922-11	PIN, CONNECTOR 5P
CNP505	1-779-799-11	PIN, CONNECTOR 9P

< CONNECTOR >

CNS501	1-573-829-11	CONNECTOR, BOARD TO BOARD 15P
CNS502	1-766-719-41	CONNECTOR, BOARD TO BOARD 10P
CNS504	1-568-826-11	CONNECTOR, FFC 7P
CNS505	1-784-778-11	CONNECTOR, FFC 17P
CNS508	1-568-830-11	CONNECTOR, FFC 11P (EXCEPT AEP, UK)
CNS508	1-784-776-11	CONNECTOR, FFC 15P (AEP, UK)
CNS509	1-784-766-11	CONNECTOR, FFC 5P

< DIODE >

D1001	8-719-053-18	DIODE 1SR154-400TE-25
D1003	8-719-049-09	DIODE 1SS367-T3SONY
D1004	8-719-049-09	DIODE 1SS367-T3SONY
D1103	8-719-988-61	DIODE 1SS355TE-17
D1105	8-719-988-61	DIODE 1SS355TE-17
D1106	8-719-988-61	DIODE 1SS355TE-17
D1107	8-719-988-61	DIODE 1SS355TE-17
D1108	8-719-988-61	DIODE 1SS355TE-17
D1110	8-719-988-61	DIODE 1SS355TE-17
D1111	8-719-988-61	DIODE 1SS355TE-17
D1301	8-719-988-61	DIODE 1SS355TE-17
D1302	8-719-988-61	DIODE 1SS355TE-17

< FERRITE BEAD >

FB1101	1-400-862-11	BEAD, FERRITE
FB1302	1-400-862-11	BEAD, FERRITE
FB1305	1-400-862-11	BEAD, FERRITE
FB1306	1-400-862-11	BEAD, FERRITE
FB1308	1-400-862-11	BEAD, FERRITE
FB1405	1-400-862-11	BEAD, FERRITE
FB1452	1-400-862-11	BEAD, FERRITE
FB1453	1-400-862-11	BEAD, FERRITE
FB1501	1-400-862-11	BEAD, FERRITE
FB1502	1-400-862-11	BEAD, FERRITE
FB1503	1-400-862-11	BEAD, FERRITE

< IC >

IC1001	8-759-231-53	IC TA7805S
IC1031	6-705-464-01	IC BA50BC0T
IC1071	6-702-771-01	IC TA78033LS (AEP, UK)
IC1101	6-805-148-01	IC MB90488BPF-G-137E1
IC1111	6-702-913-01	IC S-80929CNMC-G8ZT2G
IC1131	6-704-004-01	IC BR24L16F-WE2
IC1301	8-759-825-15	IC LC89056W-E
IC1303	8-759-242-70	IC TC7WU04F (TE12R)

Ref. No.	Part No.	Description			Remark
IC1352	6-600-014-01	IC TORX141L (SA-CD/CD IN)			
IC1401	8-759-560-56	IC PCM1800E/2K			
IC1452	6-705-022-01	IC PCM1602KYG/2K			
IC1501	6-705-843-01	IC CXD9720BQ			
IC1502	6-704-037-01	IC IS61LV6416-10TLT			
IC1503	8-759-546-74	IC TC7WH157FU (TE12R)			
IC1901	6-701-887-02	IC SI-3004KWF			
IC1902	6-703-550-01	IC TA7809LS			
IC1904	6-705-463-01	IC BA33BC0T			
		< JACK >			
J1301	1-794-972-11	JACK, PIN 1P (DVD IN COAXIAL)			
		< SHORT >			
JR1020	1-216-864-11	SHORT CHIP	0		
JR1201	1-211-950-11	SHORT CHIP	0		
JR1202	1-216-864-11	SHORT CHIP	0 (EXCEPT AEP, UK)		
JR1203	1-216-296-11	SHORT CHIP	0		
JR1204	1-211-950-11	SHORT CHIP	0		
JR1206	1-211-950-11	SHORT CHIP	0		
JR1211	1-216-296-11	SHORT CHIP	0		
JR1212	1-216-296-11	SHORT CHIP	0		
JR1214	1-216-296-11	SHORT CHIP	0		
JR1215	1-216-296-11	SHORT CHIP	0		
JR1301	1-216-864-11	SHORT CHIP	0		
JR1501	1-216-864-11	SHORT CHIP	0		
JR1511	1-400-862-11	BEAD, FERRITE			
		< TRANSISTOR >			
Q1103	8-729-027-43	TRANSISTOR	RT1N141C-TP-1		
Q1104	8-729-230-49	TRANSISTOR	2SC2712-YG-TE85L		
Q1105	8-729-230-49	TRANSISTOR	2SC2712-YG-TE85L		
		< RESISTOR >			
R1018	1-216-864-11	SHORT CHIP	0		
R1019	1-216-864-11	SHORT CHIP	0		
R1035	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1039	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1041	1-216-809-11	METAL CHIP	100	5%	1/10W
R1042	1-216-809-11	METAL CHIP	100	5%	1/10W
R1044	1-216-809-11	METAL CHIP	100	5%	1/10W
R1049	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1052	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1053	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1058	1-216-813-11	METAL CHIP	220	5%	1/10W (AEP, UK)
R1059	1-216-813-11	METAL CHIP	220	5%	1/10W (AEP, UK)
R1065	1-216-809-11	METAL CHIP	100	5%	1/10W
R1066	1-216-809-11	METAL CHIP	100	5%	1/10W
R1067	1-216-809-11	METAL CHIP	100	5%	1/10W
R1068	1-216-809-11	METAL CHIP	100	5%	1/10W
R1071	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1072	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1073	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1075	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1076	1-216-809-11	METAL CHIP	100	5%	1/10W
R1077	1-216-809-11	METAL CHIP	100	5%	1/10W
R1078	1-216-809-11	METAL CHIP	100	5%	1/10W
R1079	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1083	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1088	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1094	1-216-833-11	METAL CHIP	10K	5%	1/10W (EXCEPT AEP, UK)
R1095	1-216-833-11	METAL CHIP	10K	5%	1/10W (EXCEPT AEP, UK)
R1096	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1097	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1098	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1099	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1106	1-216-809-11	METAL CHIP	100	5%	1/10W
R1107	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1108	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1109	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1110	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1111	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1112	1-216-809-11	METAL CHIP	100	5%	1/10W
R1113	1-216-809-11	METAL CHIP	100	5%	1/10W
R1114	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1115	1-216-809-11	METAL CHIP	100	5%	1/10W
R1117	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1118	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1119	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1120	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1121	1-216-809-11	METAL CHIP	100	5%	1/10W
R1122	1-216-809-11	METAL CHIP	100	5%	1/10W
R1123	1-216-809-11	METAL CHIP	100	5%	1/10W
R1124	1-216-809-11	METAL CHIP	100	5%	1/10W
R1127	1-216-809-11	METAL CHIP	100	5%	1/10W
R1128	1-216-809-11	METAL CHIP	100	5%	1/10W
R1129	1-216-809-11	METAL CHIP	100	5%	1/10W
R1132	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1134	1-216-809-11	METAL CHIP	100	5%	1/10W
R1135	1-216-809-11	METAL CHIP	100	5%	1/10W
R1136	1-216-809-11	METAL CHIP	100	5%	1/10W
R1137	1-216-809-11	METAL CHIP	100	5%	1/10W
R1138	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1140	1-216-809-11	METAL CHIP	100	5%	1/10W
R1142	1-216-809-11	METAL CHIP	100	5%	1/10W
R1143	1-216-809-11	METAL CHIP	100	5%	1/10W
R1144	1-216-809-11	METAL CHIP	100	5%	1/10W
R1147	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1149	1-216-809-11	METAL CHIP	100	5%	1/10W
R1150	1-216-809-11	METAL CHIP	100	5%	1/10W
R1151	1-216-809-11	METAL CHIP	100	5%	1/10W
R1152	1-216-809-11	METAL CHIP	100	5%	1/10W
R1153	1-216-809-11	METAL CHIP	100	5%	1/10W
R1154	1-216-809-11	METAL CHIP	100	5%	1/10W
R1155	1-216-809-11	METAL CHIP	100	5%	1/10W
R1159	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1160	1-216-809-11	METAL CHIP	100	5%	1/10W
R1161	1-216-809-11	METAL CHIP	100	5%	1/10W
R1162	1-216-809-11	METAL CHIP	100	5%	1/10W
R1164	1-216-864-11	SHORT CHIP	0		

DIGITAL

Ref. No.	Part No.	Description			Remark
R1167	1-216-809-11	METAL CHIP	100	5%	1/10W
R1168	1-216-809-11	METAL CHIP	100	5%	1/10W
R1175	1-216-809-11	METAL CHIP	100	5%	1/10W (AEP, UK)
R1176	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1177	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1178	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1179	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1180	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1186	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1187	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1189	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1190	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1193	1-216-833-11	METAL CHIP	10K	5%	1/10W (E51)
R1193	1-216-837-11	METAL CHIP	22K	5%	1/10W (AUS)
R1193	1-216-841-11	METAL CHIP	47K	5%	1/10W (AEP, UK, MX, SP)
R1194	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (AEP, UK)
R1194	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (SP)
R1194	1-216-841-11	METAL CHIP	47K	5%	1/10W (E51, MX, AUS)
R1194	1-216-864-11	SHORT CHIP	0 (US, CND)		
R1201	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1251	1-216-840-11	METAL CHIP	39K	5%	1/10W
R1252	1-216-840-11	METAL CHIP	39K	5%	1/10W
R1260	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1261	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1301	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1303	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1304	1-216-809-11	METAL CHIP	100	5%	1/10W
R1305	1-216-817-11	METAL CHIP	470	5%	1/10W
R1306	1-216-809-11	METAL CHIP	100	5%	1/10W
R1307	1-216-809-11	METAL CHIP	100	5%	1/10W
R1308	1-216-809-11	METAL CHIP	100	5%	1/10W
R1309	1-216-809-11	METAL CHIP	100	5%	1/10W
R1310	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1311	1-216-809-11	METAL CHIP	100	5%	1/10W
R1312	1-216-809-11	METAL CHIP	100	5%	1/10W
R1313	1-216-809-11	METAL CHIP	100	5%	1/10W
R1314	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1315	1-216-809-11	METAL CHIP	100	5%	1/10W
R1316	1-216-809-11	METAL CHIP	100	5%	1/10W
R1318	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1352	1-216-809-11	METAL CHIP	100	5%	1/10W
R1355	1-218-285-11	METAL CHIP	75	5%	1/10W
R1356	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1357	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1358	1-216-854-11	METAL CHIP	560K	5%	1/10W
R1359	1-216-809-11	METAL CHIP	100	5%	1/10W
R1360	1-216-809-11	METAL CHIP	100	5%	1/10W
R1362	1-216-809-11	METAL CHIP	100	5%	1/10W
R1401	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1402	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1403	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1407	1-216-809-11	METAL CHIP	100	5%	1/10W
R1416	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1420	1-216-864-11	SHORT CHIP	0		
R1421	1-216-864-11	SHORT CHIP	0		
R1425	1-216-864-11	SHORT CHIP	0		
R1426	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1435	1-216-864-11	SHORT CHIP	0		
R1436	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1445	1-216-864-11	SHORT CHIP	0		
R1446	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1455	1-216-864-11	SHORT CHIP	0		
R1456	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1460	1-216-864-11	SHORT CHIP	0		
R1461	1-216-864-11	SHORT CHIP	0		
R1464	1-216-864-11	SHORT CHIP	0		
R1466	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1470	1-216-864-11	SHORT CHIP	0		
R1471	1-216-864-11	SHORT CHIP	0		
R1472	1-216-864-11	SHORT CHIP	0		
R1474	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1475	1-216-864-11	SHORT CHIP	0		
R1476	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1484	1-216-864-11	SHORT CHIP	0		
R1486	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1490	1-216-864-11	SHORT CHIP	0		
R1491	1-216-864-11	SHORT CHIP	0		
R1492	1-216-864-11	SHORT CHIP	0		
R1493	1-216-864-11	SHORT CHIP	0		
R1494	1-216-864-11	SHORT CHIP	0		
R1495	1-216-864-11	SHORT CHIP	0		
R1501	1-216-809-11	METAL CHIP	100	5%	1/10W
R1502	1-216-809-11	METAL CHIP	100	5%	1/10W
R1503	1-216-813-11	METAL CHIP	220	5%	1/10W
R1504	1-216-809-11	METAL CHIP	100	5%	1/10W
R1505	1-216-809-11	METAL CHIP	100	5%	1/10W
R1506	1-216-809-11	METAL CHIP	100	5%	1/10W
R1507	1-216-809-11	METAL CHIP	100	5%	1/10W
R1508	1-216-809-11	METAL CHIP	100	5%	1/10W
R1509	1-216-809-11	METAL CHIP	100	5%	1/10W
R1510	1-216-809-11	METAL CHIP	100	5%	1/10W
R1511	1-216-809-11	METAL CHIP	100	5%	1/10W
R1512	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1513	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1514	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1515	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1517	1-216-813-11	METAL CHIP	220	5%	1/10W
R1518	1-216-813-11	METAL CHIP	220	5%	1/10W
R1519	1-216-813-11	METAL CHIP	220	5%	1/10W
R1520	1-216-813-11	METAL CHIP	220	5%	1/10W
R1521	1-216-813-11	METAL CHIP	220	5%	1/10W
R1522	1-216-813-11	METAL CHIP	220	5%	1/10W
R1523	1-216-813-11	METAL CHIP	220	5%	1/10W
R1524	1-216-864-11	SHORT CHIP	0		
R1525	1-216-813-11	METAL CHIP	220	5%	1/10W
R1526	1-216-813-11	METAL CHIP	220	5%	1/10W
R1527	1-216-813-11	METAL CHIP	220	5%	1/10W
R1528	1-216-813-11	METAL CHIP	220	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1532	1-216-813-11	METAL CHIP	220	5%	1/10W
R1533	1-216-813-11	METAL CHIP	220	5%	1/10W
R1534	1-216-813-11	METAL CHIP	220	5%	1/10W
R1535	1-216-813-11	METAL CHIP	220	5%	1/10W
R1536	1-216-813-11	METAL CHIP	220	5%	1/10W
R1537	1-216-813-11	METAL CHIP	220	5%	1/10W
R1538	1-216-813-11	METAL CHIP	220	5%	1/10W
R1539	1-216-813-11	METAL CHIP	220	5%	1/10W
R1540	1-216-813-11	METAL CHIP	220	5%	1/10W
R1541	1-216-813-11	METAL CHIP	220	5%	1/10W
R1542	1-216-813-11	METAL CHIP	220	5%	1/10W
R1543	1-216-813-11	METAL CHIP	220	5%	1/10W
R1544	1-216-813-11	METAL CHIP	220	5%	1/10W
R1545	1-216-813-11	METAL CHIP	220	5%	1/10W
R1546	1-216-813-11	METAL CHIP	220	5%	1/10W
R1547	1-216-813-11	METAL CHIP	220	5%	1/10W
R1548	1-216-813-11	METAL CHIP	220	5%	1/10W
R1549	1-216-813-11	METAL CHIP	220	5%	1/10W
R1550	1-216-813-11	METAL CHIP	220	5%	1/10W
R1551	1-216-813-11	METAL CHIP	220	5%	1/10W
R1552	1-216-813-11	METAL CHIP	220	5%	1/10W
R1553	1-216-813-11	METAL CHIP	220	5%	1/10W
R1554	1-216-813-11	METAL CHIP	220	5%	1/10W
R1555	1-216-813-11	METAL CHIP	220	5%	1/10W
R1556	1-216-809-11	METAL CHIP	100	5%	1/10W
R1570	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1571	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1572	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1573	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1574	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1635	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1636	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
		< VIBRATOR >			
X1101	1-813-448-21	PIEZOELECTRIC OSCILLATOR 24MHz			
X1301	1-795-126-21	VIBRATOR, CRYSTAL 12.288MHz			
X1502	1-813-276-21	QUARTZ CRYSTAL 13.9MHz			
**********					
	A-1082-615-A	DISPLAY BOARD, COMPLETE (US, CND, E51, MX)			
	A-1108-790-A	DISPLAY BOARD, COMPLETE (AEP, UK, SP, AUS)			
		**********			
		< CAPACITOR >			
C100	1-135-798-11	CERAMIC	0.22uF		50V
C101	1-135-798-11	CERAMIC	0.22uF		50V
C108	1-135-798-11	CERAMIC	0.22uF		50V
C109	1-135-798-11	CERAMIC	0.22uF		50V
C110	1-127-868-11	CERAMIC	2200PF	10%	50V
C111	1-162-282-31	CERAMIC	100PF	10%	50V
C112	1-162-282-31	CERAMIC	100PF	10%	50V
C114	1-135-798-11	CERAMIC	0.22uF		50V
C115	1-124-261-00	ELECT	10uF	20%	50V
C132	1-162-286-31	CERAMIC	220PF	10%	50V
C133	1-162-286-31	CERAMIC	220PF	10%	50V
C134	1-162-286-31	CERAMIC	220PF	10%	50V

Ref. No.	Part No.	Description			Remark
C135	1-162-286-31	CERAMIC	220PF	10%	50V
C136	1-162-286-31	CERAMIC	220PF	10%	50V
C137	1-162-286-31	CERAMIC	220PF	10%	50V
C138	1-162-286-31	CERAMIC	220PF	10%	50V
C139	1-162-286-31	CERAMIC	220PF	10%	50V
C140	1-162-286-31	CERAMIC	220PF	10%	50V
C141	1-162-286-31	CERAMIC	220PF	10%	50V
C142	1-162-286-31	CERAMIC	220PF	10%	50V
C143	1-162-286-31	CERAMIC	220PF	10%	50V
C144	1-135-798-11	CERAMIC	0.22uF		50V
C150	1-135-798-11	CERAMIC	0.22uF		50V
C151	1-124-261-00	ELECT	10uF	20%	50V
C152	1-162-286-31	CERAMIC	220PF	10%	50V
C153	1-162-286-31	CERAMIC	220PF	10%	50V
C154	1-162-286-31	CERAMIC	220PF	10%	50V
C155	1-135-798-11	CERAMIC	0.22uF		50V
C156	1-135-798-11	CERAMIC	0.22uF		50V
C157	1-135-798-11	CERAMIC	0.22uF		50V
		< CONNECTOR >			
* CNP101	1-564-519-11	PLUG, CONNECTOR 4P			
* CNP103	1-564-518-11	PLUG, CONNECTOR 3P			
		< CONNECTOR >			
* CNS100	1-569-934-11	SOCKET, CONNECTOR 17P			
		< FLUORESCENT INDICATOR >			
FL101	1-518-966-11	VOCUUM FLUORESENT DISPLAYS			
		< IC >			
IC100	8-759-643-83	IC PT6315			
IC101	8-759-243-51	IC TC74ACT08P			
IC102	6-600-309-01	IC RPM7240-H9 (R)			
		< RESISTOR >			
R101	1-249-413-11	CARBON	470	5%	1/4W
R102	1-247-831-91	CARBON	1K	5%	1/4W
R103	1-247-831-91	CARBON	1K	5%	1/4W
R104	1-249-421-11	CARBON	2.2K	5%	1/4W
R105	1-249-421-11	CARBON	2.2K	5%	1/4W
R106	1-247-847-91	CARBON	4.7K	5%	1/4W
R107	1-249-429-11	CARBON	10K	5%	1/4W
R108	1-247-863-91	CARBON	22K	5%	1/4W
R111	1-249-413-11	CARBON	470	5%	1/4W
R112	1-247-831-91	CARBON	1K	5%	1/4W
R113	1-247-831-91	CARBON	1K	5%	1/4W
R114	1-249-421-11	CARBON	2.2K	5%	1/4W
R116	1-247-847-91	CARBON	4.7K	5%	1/4W
R137	1-247-847-91	CARBON	4.7K	5%	1/4W
R138	1-249-429-11	CARBON	10K	5%	1/4W
R139	1-247-863-91	CARBON	22K	5%	1/4W
R150	1-249-440-11	CARBON	82K	5%	1/4W
R153	1-247-807-31	CARBON	100	5%	1/4W
R172	1-247-807-31	CARBON	100	5%	1/4W
R173	1-247-807-31	CARBON	100	5%	1/4W
R174	1-247-807-31	CARBON	100	5%	1/4W

DISPLAY **HEADPHONE** **MAIN**

Ref. No.	Part No.	Description			Remark
⚠R175	1-249-393-11	CARBON	10	5%	1/4W
⚠R198	1-249-381-11	CARBON	1	5%	1/4W (US, CND, E51, MX)
⚠R198	1-249-385-11	CARBON	2.2	5%	1/4W (AEP, UK, SP, AUS)
⚠R199	1-249-381-11	CARBON	1	5%	1/4W (US, CND, E51, MX)
⚠R199	1-249-385-11	CARBON	2.2	5%	1/4W (AEP, UK, SP, AUS)
		< VARIABLE RESISTOR >			
RV102	1-418-725-41	ENCODER, ROTARY (12 TYPE) (MASTER VOLUME)			
		< SWITCH >			
S100	1-771-410-21	SWITCH, TACTILE (INPUT MODE)			
S101	1-771-410-21	SWITCH, TACTILE (>)			
S102	1-771-410-21	SWITCH, TACTILE (–)			
S103	1-771-410-21	SWITCH, TACTILE (+)			
S104	1-771-410-21	SWITCH, TACTILE (<)			
S105	1-771-410-21	SWITCH, TACTILE (FM)			
S106	1-771-410-21	SWITCH, TACTILE (AM)			
S107	1-771-410-21	SWITCH, TACTILE (MAIN MENU)			
S108	1-771-410-21	SWITCH, TACTILE (ENTER)			
S110	1-771-410-21	SWITCH, TACTILE (MUSIC)			
S111	1-771-410-21	SWITCH, TACTILE (MOVIE)			
S112	1-771-410-21	SWITCH, TACTILE (A.F.D.)			
S113	1-771-410-21	SWITCH, TACTILE (2CH)			
S116	1-771-410-21	SWITCH, TACTILE (SA-CD/CD)			
S137	1-771-410-21	SWITCH, TACTILE (VIDEO 1)			
S138	1-771-410-21	SWITCH, TACTILE (VIDEO 2)			
S139	1-771-410-21	SWITCH, TACTILE (DVD)			
**********					
		HEADPHONE BOARD			
		**********			
		< CONNECTOR >			
CNP701	1-691-766-11	PLUG (MICRO CONNECTOR) 4P			
		< JACK >			
J700	1-815-314-21	JACK (PHONES)			
**********					
	A-1082-609-A	MAIN BOARD, COMPLETE (US, CND)			
	A-1083-591-A	MAIN BOARD, COMPLETE (AEP, UK, SP, AUS)			
	A-1083-969-A	MAIN BOARD, COMPLETE (MX)			
	A-1108-531-A	MAIN BOARD, COMPLETE (E51)			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
		< CAPACITOR >			
C400	1-127-888-11	CERAMIC	0.1uF	10%	50V
C402	1-126-964-11	ELECT	10uF	20%	50V
C403	1-162-294-31	CERAMIC	0.001uF	10%	50V
C404	1-162-294-31	CERAMIC	0.001uF	10%	50V
C421	1-126-963-11	ELECT	4.7uF	20%	50V
C422	1-126-963-11	ELECT	4.7uF	20%	50V

Ref. No.	Part No.	Description			Remark
C423	1-126-963-11	ELECT	4.7uF	20%	50V
C424	1-126-963-11	ELECT	4.7uF	20%	50V
C425	1-126-963-11	ELECT	4.7uF	20%	50V
C426	1-126-963-11	ELECT	4.7uF	20%	50V
C431	1-126-961-11	ELECT	2.2uF	20%	50V
C432	1-126-961-11	ELECT	2.2uF	20%	50V
C433	1-126-961-11	ELECT	2.2uF	20%	50V
C434	1-126-961-11	ELECT	2.2uF	20%	50V
C435	1-126-961-11	ELECT	2.2uF	20%	50V
C436	1-126-961-11	ELECT	2.2uF	20%	50V
C446	1-126-963-11	ELECT	4.7uF	20%	50V
C452	1-126-964-11	ELECT	10uF	20%	50V
C471	1-104-658-91	ELECT	100uF	20%	10V
C472	1-127-888-11	CERAMIC	0.1uF	10%	50V
C482	1-127-888-11	CERAMIC	0.1uF	10%	50V
C484	1-127-888-11	CERAMIC	0.1uF	10%	50V
C500	1-128-579-11	ELECT	2.2uF	20%	100V
C501	1-126-963-11	ELECT	4.7uF	20%	50V
C502	1-128-809-11	CERAMIC	100PF	5%	50V
C503	1-128-813-11	CERAMIC	220PF	5%	50V
C504	1-102-233-00	CERAMIC	33PF	10%	500V
C506	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C507	1-104-658-91	ELECT	100uF	20%	10V
C508	1-126-947-11	ELECT	47uF	20%	25V
C511	1-162-815-11	CERAMIC	47PF	5%	500V
C512	1-162-815-11	CERAMIC	47PF	5%	500V
C513	1-128-813-11	CERAMIC	220PF	5%	50V
C514	1-127-876-11	CERAMIC	0.01uF	10%	50V
C515	1-126-964-11	ELECT	10uF	20%	50V
C516	1-136-157-00	FILM	0.022uF	5%	50V
C551	1-126-963-11	ELECT	4.7uF	20%	50V
C552	1-128-809-11	CERAMIC	100PF	5%	50V
C553	1-128-813-11	CERAMIC	220PF	5%	50V
C554	1-102-233-00	CERAMIC	33PF	10%	500V
C556	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C557	1-104-658-91	ELECT	100uF	20%	10V
C558	1-126-947-11	ELECT	47uF	20%	25V
C561	1-162-815-11	CERAMIC	47PF	5%	500V
C562	1-162-815-11	CERAMIC	47PF	5%	500V
C563	1-128-813-11	CERAMIC	220PF	5%	50V
C564	1-127-876-11	CERAMIC	0.01uF	10%	50V
C565	1-126-964-11	ELECT	10uF	20%	50V
C566	1-136-157-00	FILM	0.022uF	5%	50V
C590	1-136-171-00	FILM	0.33uF	5%	50V
C592	1-136-175-00	FILM	0.68uF	5%	50V
C593	1-136-159-00	FILM	0.033uF	5%	50V
C594	1-137-190-91	FILM	0.22uF	5%	50V
C600	1-128-579-11	ELECT	2.2uF	20%	100V
C601	1-126-963-11	ELECT	4.7uF	20%	50V
C602	1-128-809-11	CERAMIC	100PF	5%	50V
C603	1-128-813-11	CERAMIC	220PF	5%	50V
C604	1-102-233-00	CERAMIC	33PF	10%	500V
C606	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C607	1-104-658-91	ELECT	100uF	20%	10V
C608	1-126-947-11	ELECT	47uF	20%	25V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
C611	1-162-815-11	CERAMIC	47PF	5%	500V
C612	1-162-815-11	CERAMIC	47PF	5%	500V
C613	1-128-813-11	CERAMIC	220PF	5%	50V
C614	1-127-876-11	CERAMIC	0.01uF	10%	50V
C615	1-126-964-11	ELECT	10uF	20%	50V
C616	1-136-157-00	FILM	0.022uF	5%	50V
C651	1-126-963-11	ELECT	4.7uF	20%	50V
C652	1-128-809-11	CERAMIC	100PF	5%	50V
C653	1-128-813-11	CERAMIC	220PF	5%	50V
C654	1-102-233-00	CERAMIC	33PF	10%	500V
C656	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C657	1-104-658-91	ELECT	100uF	20%	10V
C658	1-126-947-11	ELECT	47uF	20%	25V
C661	1-162-815-11	CERAMIC	47PF	5%	500V
C662	1-162-815-11	CERAMIC	47PF	5%	500V
C663	1-128-813-11	CERAMIC	220PF	5%	50V
C664	1-127-876-11	CERAMIC	0.01uF	10%	50V
C665	1-126-964-11	ELECT	10uF	20%	50V
C666	1-136-157-00	FILM	0.022uF	5%	50V
C700	1-128-579-11	ELECT	2.2uF	20%	100V
C701	1-126-963-11	ELECT	4.7uF	20%	50V
C702	1-128-809-11	CERAMIC	100PF	5%	50V
C703	1-128-813-11	CERAMIC	220PF	5%	50V
C704	1-102-233-00	CERAMIC	33PF	10%	500V
C706	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C707	1-104-658-91	ELECT	100uF	20%	10V
C708	1-126-947-11	ELECT	47uF	20%	25V
C711	1-162-815-11	CERAMIC	47PF	5%	500V
C712	1-162-815-11	CERAMIC	47PF	5%	500V
C713	1-128-813-11	CERAMIC	220PF	5%	50V
C714	1-127-876-11	CERAMIC	0.01uF	10%	50V
C715	1-126-964-11	ELECT	10uF	20%	50V
C716	1-136-157-00	FILM	0.022uF	5%	50V
C751	1-126-963-11	ELECT	4.7uF	20%	50V
C752	1-128-809-11	CERAMIC	100PF	5%	50V
C753	1-128-813-11	CERAMIC	220PF	5%	50V
C754	1-102-233-00	CERAMIC	33PF	10%	500V
C756	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C757	1-104-658-91	ELECT	100uF	20%	10V
C758	1-126-947-11	ELECT	47uF	20%	25V
C761	1-162-815-11	CERAMIC	47PF	5%	500V
C762	1-162-815-11	CERAMIC	47PF	5%	500V
C763	1-128-813-11	CERAMIC	220PF	5%	50V
C766	1-136-157-00	FILM	0.022uF	5%	50V
C801	1-135-798-11	CERAMIC	0.22uF		50V
C802	1-135-798-11	CERAMIC	0.22uF		50V
C803	1-126-936-11	ELECT	3300uF	20%	16V
C806	1-126-947-11	ELECT	47uF	20%	35V
C807	1-126-947-11	ELECT	47uF	20%	35V
C808	1-126-947-11	ELECT	47uF	20%	35V
C811	1-136-497-81	FILM	0.1uF	5%	50V
C812	1-136-497-81	FILM	0.1uF	5%	50V
C813	1-100-968-11	ELECT	4700uF	20%	63V
C814	1-100-968-11	ELECT	4700uF	20%	63V
C815	1-128-582-11	ELECT	10uF	20%	100V
C816	1-128-582-11	ELECT	10uF	20%	100V
C821	1-127-888-11	CERAMIC	0.1uF	10%	50V
C822	1-127-888-11	CERAMIC	0.1uF	10%	50V
C823	1-126-947-11	ELECT	47uF	20%	25V
C824	1-126-947-11	ELECT	47uF	20%	25V
C851	1-127-888-11	CERAMIC	0.1uF	10%	50V
C881	1-126-934-11	ELECT	220uF	20%	16V
C882	1-126-964-11	ELECT	10uF	20%	50V
		< CAPACITOR >			
CC01	1-128-809-11	CERAMIC	100PF	5%	50V (AEP, UK, E51, SP, AUS)
CC02	1-128-809-11	CERAMIC	100PF	5%	50V (AEP, UK, E51, SP, AUS)
CC03	1-128-809-11	CERAMIC	100PF	5%	50V (AEP, UK, E51, SP, AUS)
CC04	1-128-809-11	CERAMIC	100PF	5%	50V (AEP, UK, E51, SP, AUS)
CC11	1-127-876-11	CERAMIC	0.01uF	10%	50V (AEP, UK, E51, SP, AUS)
CC12	1-127-876-11	CERAMIC	0.01uF	10%	50V (AEP, UK, E51, SP, AUS)
CC13	1-127-876-11	CERAMIC	0.01uF	10%	50V (AEP, UK, E51, SP, AUS)
CC14	1-127-876-11	CERAMIC	0.01uF	10%	50V (AEP, UK, E51, SP, AUS)
CC15	1-127-876-11	CERAMIC	0.01uF	10%	50V (AEP, UK, E51, SP, AUS)
CC16	1-127-876-11	CERAMIC	0.01uF	10%	50V (AEP, UK, E51, SP, AUS)
CC51	1-128-809-11	CERAMIC	100PF	5%	50V (AEP, UK, E51, SP, AUS)
CC52	1-128-809-11	CERAMIC	100PF	5%	50V (AEP, UK, E51, SP, AUS)
CC53	1-128-809-11	CERAMIC	100PF	5%	50V (AEP, UK, E51, SP, AUS)
CC54	1-128-809-11	CERAMIC	100PF	5%	50V (AEP, UK, E51, SP, AUS)
		< CONNECTOR >			
CN503	1-784-925-11	PIN, CONNECTOR 10P			
CN504	1-779-978-11	PIN, CONNECTOR 3P			
		< CONNECTOR >			
CNP501	1-573-847-11	CONNECTOR, BOARD TO BOARD 15P			
* CNP502	1-766-715-11	CONNECTOR, BOARD TO BOARD 10P			
* CNP901	1-564-104-00	PIN, CONNECTOR (3.96mm PITCH) 3P			
CNP902	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
CNP916	1-766-200-11	SOCKET, CONNECTOR PIN 5P			
		< DIODE >			
D448	8-719-991-33	DIODE 1SS133T-72			
D449	8-719-991-33	DIODE 1SS133T-72			
D501	8-719-991-33	DIODE 1SS133T-72			
D502	8-719-991-33	DIODE 1SS133T-72			
D503	8-719-991-33	DIODE 1SS133T-72			
D551	8-719-991-33	DIODE 1SS133T-72			
D552	8-719-991-33	DIODE 1SS133T-72			
D601	8-719-991-33	DIODE 1SS133T-72			
D602	8-719-991-33	DIODE 1SS133T-72			
D603	8-719-991-33	DIODE 1SS133T-72			
D651	8-719-991-33	DIODE 1SS133T-72			
D652	8-719-991-33	DIODE 1SS133T-72			

MAIN

Ref. No.	Part No.	Description	Remark
D701	8-719-991-33	DIODE 1SS133T-72	
D702	8-719-991-33	DIODE 1SS133T-72	
D703	8-719-991-33	DIODE 1SS133T-72	
D751	8-719-991-33	DIODE 1SS133T-72	
D752	8-719-991-33	DIODE 1SS133T-72	
D791	8-719-991-33	DIODE 1SS133T-72	
D801	8-719-933-95	DIODE HZS20-1LTA	
D802	8-719-068-28	DIODE HZ6.8BP-TK	
D804	6-500-522-11	DIODE 10EDB40-TA2B5	
D805	6-500-522-11	DIODE 10EDB40-TA2B5	
D806	6-500-522-11	DIODE 10EDB40-TA2B5	
D807	6-500-522-11	DIODE 10EDB40-TA2B5	
D811	8-719-072-05	DIODE D5SBA20-4003	
D821	8-719-043-76	DIODE AK04V1	
D851	8-719-991-33	DIODE 1SS133T-72	
D881	8-719-991-33	DIODE 1SS133T-72	
D882	8-719-991-33	DIODE 1SS133T-72	
D883	8-719-991-33	DIODE 1SS133T-72	
		< IC >	
IC400	6-707-169-01	IC M61542FP	
IC501	6-700-943-01	IC uPC2581V-S	
IC502	8-759-167-88	IC NJM4565D	
IC601	6-700-943-01	IC uPC2581V-S	
IC701	6-700-943-01	IC uPC2581V-S	
IC821	8-759-071-48	IC TA7807S	
IC822	8-759-071-47	IC TA79007S	
IC850	8-759-167-88	IC NJM4565D	
		< JACK >	
J401	1-770-614-11	JACK, PIN 4P (VIDEO 1 / VIDEO 2)	
J402	1-770-614-11	JACK, PIN 4P (DVD / SA-CD/CD)	
J403	1-774-785-11	JACK, PIN 1P (SUB WOOFER)	
		< COIL >	
L501	1-420-872-52	COIL, AIR-CORE	
L551	1-420-872-52	COIL, AIR-CORE	
L601	1-420-872-52	COIL, AIR-CORE	
L651	1-420-872-52	COIL, AIR-CORE	
L701	1-420-872-52	COIL, AIR-CORE	
L751	1-420-872-52	COIL, AIR-CORE	
		< TRANSISTOR >	
Q471	8-729-922-37	TRANSISTOR 2SD2144S-TP-UVW	
Q501	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q502	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q505	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP	
Q506	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP	
Q507	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q508	8-729-119-78	TRANSISTOR 2SC1740S-QRT	
Q509	8-729-119-78	TRANSISTOR 2SC1740S-QRT	
Q551	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q552	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q555	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP	
Q556	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP	
Q557	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q560	8-729-119-78	TRANSISTOR 2SC1740S-QRT	
Q601	8-729-119-76	TRANSISTOR 2SA1115TP-EF	

Ref. No.	Part No.	Description	Remark
Q602	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q605	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP	
Q606	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP	
Q607	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q608	8-729-119-78	TRANSISTOR 2SC1740S-QRT	
Q651	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q652	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q655	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP	
Q656	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP	
Q657	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q701	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q702	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q705	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP	
Q706	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP	
Q707	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q708	8-729-119-78	TRANSISTOR 2SC1740S-QRT	
Q751	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q752	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q755	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP	
Q756	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP	
Q801	8-729-140-97	TRANSISTOR 2SB734-T-34	
Q851	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q852	8-729-029-40	TRANSISTOR DTA124ESA-TP	
Q881	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP	
Q882	8-729-119-78	TRANSISTOR 2SC1740S-QRT	
Q883	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
		< RESISTOR >	
R401	1-247-831-91	CARBON 1K 5% 1/4W	
R402	1-247-831-91	CARBON 1K 5% 1/4W	
R403	1-247-831-91	CARBON 1K 5% 1/4W	
R404	1-247-831-91	CARBON 1K 5% 1/4W	
R406	1-247-807-31	CARBON 100 5% 1/4W	
R407	1-247-807-31	CARBON 100 5% 1/4W	
R416	1-247-831-91	CARBON 1K 5% 1/4W	
R449	1-247-831-91	CARBON 1K 5% 1/4W	
R451	1-247-831-91	CARBON 1K 5% 1/4W	
R452	1-247-831-91	CARBON 1K 5% 1/4W	
R453	1-247-831-91	CARBON 1K 5% 1/4W	
R454	1-247-831-91	CARBON 1K 5% 1/4W	
R469	1-247-831-91	CARBON 1K 5% 1/4W	
R471	1-249-415-11	CARBON 680 5% 1/4W	
R472	1-247-831-91	CARBON 1K 5% 1/4W	
R473	1-249-421-11	CARBON 2.2K 5% 1/4W	
R479	1-249-421-11	CARBON 2.2K 5% 1/4W	
R500	1-247-863-91	CARBON 22K 5% 1/4W	
R501	1-247-831-91	CARBON 1K 5% 1/4W	
R502	1-249-439-11	CARBON 68K 5% 1/4W	
R503	1-249-422-11	CARBON 2.7K 5% 1/4W	
R504	1-249-439-11	CARBON 68K 5% 1/4W	
R505	1-249-421-11	CARBON 2.2K 5% 1/4W	
R506	1-249-440-11	CARBON 82K 5% 1/4W	
R507	1-249-414-11	CARBON 560 5% 1/4W	
⚠R508	1-249-405-11	CARBON 100 5% 1/4W	
⚠R509	1-249-405-11	CARBON 100 5% 1/4W	

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Ref. No.	Part No.	Description			Remark
⚠R510	1-234-182-11	ENCAPSULATED COMPONENT			
R511	1-247-847-91	CARBON	4.7K	5%	1/4W
⚠R512	1-240-855-81	CARBON	6.2K	5%	1/4W
R513	1-249-419-11	CARBON	1.5K	5%	1/4W
R514	1-249-431-11	CARBON	15K	5%	1/4W
R515	1-247-863-91	CARBON	22K	5%	1/4W
R516	1-247-843-11	CARBON	3.3K	5%	1/4W
R517	1-249-431-11	CARBON	15K	5%	1/4W
R518	1-247-863-91	CARBON	22K	5%	1/4W
R519	1-247-863-91	CARBON	22K	5%	1/4W
R520	1-249-439-11	CARBON	68K	5%	1/4W
⚠R521	1-249-393-11	CARBON	10	5%	1/4W
R522	1-247-871-91	CARBON	47K	5%	1/4W
⚠R523	1-249-389-11	CARBON	4.7	5%	1/4W
⚠R524	1-249-404-00	CARBON	82	5%	1/4W
R525	1-249-421-11	CARBON	2.2K	5%	1/4W
R531	1-215-868-00	METAL OXIDE	680	5%	1W
R532	1-215-868-00	METAL OXIDE	680	5%	1W
R551	1-247-831-91	CARBON	1K	5%	1/4W
R552	1-249-439-11	CARBON	68K	5%	1/4W
R553	1-249-422-11	CARBON	2.7K	5%	1/4W
R554	1-249-439-11	CARBON	68K	5%	1/4W
R555	1-249-421-11	CARBON	2.2K	5%	1/4W
R556	1-249-440-11	CARBON	82K	5%	1/4W
R557	1-249-414-11	CARBON	560	5%	1/4W
⚠R558	1-249-405-11	CARBON	100	5%	1/4W
⚠R559	1-249-405-11	CARBON	100	5%	1/4W
⚠R560	1-234-182-11	ENCAPSULATED COMPONENT			
R561	1-247-847-91	CARBON	4.7K	5%	1/4W
⚠R562	1-240-855-81	CARBON	6.2K	5%	1/4W
R563	1-249-419-11	CARBON	1.5K	5%	1/4W
R564	1-249-431-11	CARBON	15K	5%	1/4W
R565	1-247-863-91	CARBON	22K	5%	1/4W
R566	1-247-843-11	CARBON	3.3K	5%	1/4W
R567	1-249-431-11	CARBON	15K	5%	1/4W
R568	1-247-863-91	CARBON	22K	5%	1/4W
R569	1-247-863-91	CARBON	22K	5%	1/4W
R570	1-249-439-11	CARBON	68K	5%	1/4W
⚠R571	1-249-393-11	CARBON	10	5%	1/4W
R572	1-247-871-91	CARBON	47K	5%	1/4W
⚠R573	1-249-389-11	CARBON	4.7	5%	1/4W
R591	1-249-421-11	CARBON	2.2K	5%	1/4W
R593	1-247-874-11	CARBON	62K	5%	1/4W
R594	1-247-863-91	CARBON	22K	5%	1/4W
R595	1-249-427-11	CARBON	6.8K	5%	1/4W
R596	1-249-427-11	CARBON	6.8K	5%	1/4W
R597	1-247-887-00	CARBON	220K	5%	1/4W
R600	1-247-863-91	CARBON	22K	5%	1/4W
R601	1-247-831-91	CARBON	1K	5%	1/4W
R602	1-249-439-11	CARBON	68K	5%	1/4W
R603	1-249-422-11	CARBON	2.7K	5%	1/4W
R604	1-249-439-11	CARBON	68K	5%	1/4W
R605	1-249-421-11	CARBON	2.2K	5%	1/4W
R606	1-249-440-11	CARBON	82K	5%	1/4W
R607	1-249-414-11	CARBON	560	5%	1/4W
⚠R608	1-249-405-11	CARBON	100	5%	1/4W
⚠R609	1-249-405-11	CARBON	100	5%	1/4W
⚠R610	1-234-182-11	ENCAPSULATED COMPONENT			

Ref. No.	Part No.	Description			Remark
R611	1-247-847-91	CARBON	4.7K	5%	1/4W
⚠R612	1-240-855-81	CARBON	6.2K	5%	1/4W
R613	1-249-419-11	CARBON	1.5K	5%	1/4W
R614	1-249-431-11	CARBON	15K	5%	1/4W
R615	1-247-863-91	CARBON	22K	5%	1/4W
R616	1-247-843-11	CARBON	3.3K	5%	1/4W
R617	1-249-431-11	CARBON	15K	5%	1/4W
R618	1-247-863-91	CARBON	22K	5%	1/4W
R619	1-247-863-91	CARBON	22K	5%	1/4W
R620	1-249-439-11	CARBON	68K	5%	1/4W
⚠R621	1-249-393-11	CARBON	10	5%	1/4W
R622	1-247-871-91	CARBON	47K	5%	1/4W
⚠R623	1-249-389-11	CARBON	4.7	5%	1/4W
⚠R624	1-249-404-00	CARBON	82	5%	1/4W
R625	1-249-421-11	CARBON	2.2K	5%	1/4W
R651	1-247-831-91	CARBON	1K	5%	1/4W
R652	1-249-439-11	CARBON	68K	5%	1/4W
R653	1-249-422-11	CARBON	2.7K	5%	1/4W
R654	1-249-439-11	CARBON	68K	5%	1/4W
R655	1-249-421-11	CARBON	2.2K	5%	1/4W
R656	1-249-440-11	CARBON	82K	5%	1/4W
R657	1-249-414-11	CARBON	560	5%	1/4W
⚠R658	1-249-405-11	CARBON	100	5%	1/4W
⚠R659	1-249-405-11	CARBON	100	5%	1/4W
⚠R660	1-234-182-11	ENCAPSULATED COMPONENT			
R661	1-247-847-91	CARBON	4.7K	5%	1/4W
⚠R662	1-240-855-81	CARBON	6.2K	5%	1/4W
R663	1-249-419-11	CARBON	1.5K	5%	1/4W
R664	1-249-431-11	CARBON	15K	5%	1/4W
R665	1-247-863-91	CARBON	22K	5%	1/4W
R666	1-247-843-11	CARBON	3.3K	5%	1/4W
R667	1-249-431-11	CARBON	15K	5%	1/4W
R668	1-247-863-91	CARBON	22K	5%	1/4W
R669	1-247-863-91	CARBON	22K	5%	1/4W
R670	1-249-439-11	CARBON	68K	5%	1/4W
⚠R671	1-249-393-11	CARBON	10	5%	1/4W
R672	1-247-871-91	CARBON	47K	5%	1/4W
⚠R673	1-249-389-11	CARBON	4.7	5%	1/4W
R700	1-247-863-91	CARBON	22K	5%	1/4W
R701	1-247-831-91	CARBON	1K	5%	1/4W
R702	1-249-439-11	CARBON	68K	5%	1/4W
R703	1-249-422-11	CARBON	2.7K	5%	1/4W
R704	1-249-439-11	CARBON	68K	5%	1/4W
R705	1-249-421-11	CARBON	2.2K	5%	1/4W
R706	1-249-440-11	CARBON	82K	5%	1/4W
R707	1-249-414-11	CARBON	560	5%	1/4W
⚠R708	1-249-405-11	CARBON	100	5%	1/4W
⚠R709	1-249-405-11	CARBON	100	5%	1/4W
⚠R710	1-234-182-11	ENCAPSULATED COMPONENT			
R711	1-247-847-91	CARBON	4.7K	5%	1/4W
⚠R712	1-240-855-81	CARBON	6.2K	5%	1/4W
R713	1-249-419-11	CARBON	1.5K	5%	1/4W
R714	1-249-431-11	CARBON	15K	5%	1/4W
R715	1-247-863-91	CARBON	22K	5%	1/4W
R716	1-247-843-11	CARBON	3.3K	5%	1/4W

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MAIN **POWER** **STANDBY**

Ref. No.	Part No.	Description			Remark
R717	1-249-431-11	CARBON	15K	5%	1/4W
R718	1-247-863-91	CARBON	22K	5%	1/4W
R719	1-247-863-91	CARBON	22K	5%	1/4W
R720	1-249-439-11	CARBON	68K	5%	1/4W
⚠R721	1-249-393-11	CARBON	10	5%	1/4W
R722	1-247-871-91	CARBON	47K	5%	1/4W
⚠R723	1-249-389-11	CARBON	4.7	5%	1/4W
⚠R724	1-249-404-00	CARBON	82	5%	1/4W
R725	1-249-421-11	CARBON	2.2K	5%	1/4W
R751	1-247-831-91	CARBON	1K	5%	1/4W
R752	1-249-439-11	CARBON	68K	5%	1/4W
R753	1-249-419-11	CARBON	1.5K	5%	1/4W
R754	1-249-439-11	CARBON	68K	5%	1/4W
R755	1-249-421-11	CARBON	2.2K	5%	1/4W
R756	1-249-440-11	CARBON	82K	5%	1/4W
R757	1-249-414-11	CARBON	560	5%	1/4W
⚠R758	1-249-405-11	CARBON	100	5%	1/4W
⚠R759	1-249-405-11	CARBON	100	5%	1/4W
⚠R760	1-234-182-11	ENCAPSULATED COMPONENT			
R761	1-247-847-91	CARBON	4.7K	5%	1/4W
R762	1-240-855-81	CARBON	6.2K	5%	1/4W
R763	1-249-419-11	CARBON	1.5K	5%	1/4W
R764	1-249-431-11	CARBON	15K	5%	1/4W
R765	1-247-863-91	CARBON	22K	5%	1/4W
R766	1-247-863-91	CARBON	22K	5%	1/4W
R770	1-249-439-11	CARBON	68K	5%	1/4W
⚠R771	1-249-393-11	CARBON	10	5%	1/4W
R772	1-247-871-91	CARBON	47K	5%	1/4W
⚠R773	1-249-389-11	CARBON	4.7	5%	1/4W
R780	1-247-847-91	CARBON	4.7K	5%	1/4W
R783	1-247-871-91	CARBON	47K	5%	1/4W
R791	1-249-421-11	CARBON	2.2K	5%	1/4W
⚠R793	1-249-404-00	CARBON	82	5%	1/4W
⚠R802	1-249-409-11	CARBON	220	5%	1/4W
⚠R803	1-249-389-11	CARBON	4.7	5%	1/4W
R804	1-249-429-11	CARBON	10K	5%	1/4W
R806	1-247-863-91	CARBON	22K	5%	1/4W
⚠R815	1-249-381-11	CARBON	1	5%	1/4W
⚠R816	1-249-381-11	CARBON	1	5%	1/4W
R851	1-249-429-11	CARBON	10K	5%	1/4W
R852	1-249-429-11	CARBON	10K	5%	1/4W
R853	1-249-429-11	CARBON	10K	5%	1/4W
R854	1-249-435-11	CARBON	33K	5%	1/4W
R855	1-247-887-00	CARBON	220K	5%	1/4W
R856	1-247-895-00	CARBON	470K	5%	1/4W
R857	1-249-429-11	CARBON	10K	5%	1/4W
R858	1-216-452-11	METAL OXIDE	180	5%	2W (E51)
R859	1-215-888-00	METAL OXIDE	220	5%	2W (E51)
R859	1-215-889-00	METAL OXIDE	330	5%	2W (EXCEPT E51, MX)
R859	1-216-453-00	METAL OXIDE	270	5%	2W (MX)
R882	1-249-429-11	CARBON	10K	5%	1/4W
R883	1-249-427-11	CARBON	6.8K	5%	1/4W
R884	1-249-436-11	CARBON	39K	5%	1/4W
R885	1-247-831-91	CARBON	1K	5%	1/4W
⚠R910	1-243-635-11	FUSIBLE	0.33	5%	1/2W

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
RR11	1-249-393-11	CARBON	10	5%	1/4W (AEP, UK, E51, SP, AUS)
RR12	1-249-393-11	CARBON	10	5%	1/4W (AEP, UK, E51, SP, AUS)
RR13	1-249-393-11	CARBON	10	5%	1/4W (AEP, UK, E51, SP, AUS)
RR14	1-249-393-11	CARBON	10	5%	1/4W (AEP, UK, E51, SP, AUS)
RR15	1-249-393-11	CARBON	10	5%	1/4W (AEP, UK, E51, SP, AUS)
RR16	1-249-393-11	CARBON	10	5%	1/4W (AEP, UK, E51, SP, AUS)
		< RELAY >			
RY501	1-755-416-12	RELAY			
RY502	1-755-416-12	RELAY			
RY601	1-755-416-12	RELAY			
RY701	1-755-416-12	RELAY			
RY702	1-755-267-11	RELAY			
		< TERMINAL >			
TM600	1-694-805-11	TERMINAL BOARD (FRONT / CENTER)			
TM601	1-694-805-11	TERMINAL BOARD (SURROUND / SUB WOOFER)			
**********					
		POWER BOARD			
		**********			
		< RESISTOR >			
R115	1-249-421-11	CARBON	2.2K	5%	1/4W
		< SWITCH >			
S114	1-771-410-21	SWITCH, TACTILE (DISPLAY)			
S115	1-771-410-21	SWITCH, TACTILE (DIMMER)			
S152	1-771-410-21	SWITCH, TACTILE (**I**/⏻)			
**********					
	A-1082-613-A	STANDBY BOARD, COMPLETE (US, CND)			
	A-1083-592-A	STANDBY BOARD, COMPLETE (AEP, UK, SP, AUS)			
	A-1083-669-A	STANDBY BOARD, COMPLETE (MX)			
	A-1083-980-A	STANDBY BOARD, COMPLETE (E51)			
		**********			
		< CAPACITOR >			
C901	1-135-798-11	CERAMIC	0.22uF		50V
C902	1-135-798-11	CERAMIC	0.22uF		50V
C911	1-135-798-11	CERAMIC	0.22uF		50V
C912	1-135-798-11	CERAMIC	0.22uF		50V
C913	1-126-959-11	ELECT	0.47uF	20%	50V
C914	1-126-936-11	ELECT	3300uF	20%	16V
C915	1-126-943-11	ELECT	2200uF	20%	25V
C916	1-126-942-61	ELECT	1000uF	20%	25V

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Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
CNP801	1-784-922-11	PIN, CONNECTOR 5P			
CNP900	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
CNP903	1-564-506-11	PLUG, CONNECTOR 3P			
CNP904	1-794-577-21	PIN, CONNECTOR (POWER)			
CNP906	1-766-203-11	PLUG, CONNECTOR PIN (PC BOARD) 5P			
		< DIODE >			
D901	8-719-991-33	DIODE 1SS133T-72			
D910	6-500-522-11	DIODE 10EDB40-TA2B5			
D911	6-500-522-11	DIODE 10EDB40-TA2B5			
D912	6-500-522-11	DIODE 10EDB40-TA2B5			
D913	6-500-522-11	DIODE 10EDB40-TA2B5			
D914	8-719-991-33	DIODE 1SS133T-72			
D915	8-719-991-33	DIODE 1SS133T-72			
D920	6-500-522-11	DIODE 10EDB40-TA2B5			
D921	6-500-522-11	DIODE 10EDB40-TA2B5			
D922	6-500-522-11	DIODE 10EDB40-TA2B5			
D923	6-500-522-11	DIODE 10EDB40-TA2B5			
		< FUSE HOLDER >			
FH902	1-533-217-41	HOLDER, FUSE			
FH952	1-533-217-41	HOLDER, FUSE			
		< GROUND TERMINAL >			
G901	1-537-738-21	TERMINAL, GROUND (US, CND)			
		< TRANSISTOR >			
Q901	8-729-119-78	TRANSISTOR	2SC1740S-QRT		
Q911	8-729-119-78	TRANSISTOR	2SC1740S-QRT		
		< RESISTOR >			
⚠R810	1-243-634-91	FUSIBLE	0.22	5% 1/2W	
⚠R812	1-243-634-91	FUSIBLE	0.22	5% 1/2W	
⚠R900	1-219-237-91	SOLID	3.3M	20% 1/2W	(US, CND)
R903	1-247-871-91	CARBON	47K	5% 1/4W	
R904	1-247-847-91	CARBON	4.7K	5% 1/4W	
⚠R905	1-249-381-11	CARBON	1	5% 1/4W	
R911	1-247-871-91	CARBON	47K	5% 1/4W	
R912	1-249-435-11	CARBON	33K	5% 1/4W	
R913	1-249-429-11	CARBON	10K	5% 1/4W	
		< RELAY >			
⚠RY901	1-755-439-11	RELAY			
		< TRANSFORMER >			
⚠T902	1-443-516-11	POWER TRANSFORMER (US, CND)			
⚠T902	1-443-517-11	POWER TRANSFORMER (AEP, UK, SP, AUS)			
⚠T902	1-443-518-11	POWER TRANSFORMER (MX)			
⚠T902	1-443-520-11	POWER TRANSFORMER (E51)			

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Ref. No.	Part No.	Description			Remark
		TUNING BOARD			
		**********			
		< RESISTOR >			
R132	1-249-413-11	CARBON	470	5% 1/4W	
R133	1-247-831-91	CARBON	1K	5% 1/4W	
R134	1-247-831-91	CARBON	1K	5% 1/4W	
R135	1-249-421-11	CARBON	2.2K	5% 1/4W	
R136	1-249-421-11	CARBON	2.2K	5% 1/4W	
		< SWITCH >			
S131	1-771-410-21	SWITCH, TACTILE (–(TUNING)			
S132	1-771-410-21	SWITCH, TACTILE (FM MODE)			
S133	1-771-410-21	SWITCH, TACTILE (MEMORY)			
S134	1-771-410-21	SWITCH, TACTILE (–(PRESET TUNING)			
S135	1-771-410-21	SWITCH, TACTILE (+(PRESET TUNING)			
S136	1-771-410-21	SWITCH, TACTILE (+(TUNING)			

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		MISCELLANEOUS			
		**********			
⚠59	1-777-071-23	CORD, POWER (AEP, UK, E51, SP)			
⚠59	1-783-820-11	CORD, POWER (US, CND)			
⚠59	1-827-295-22	CORD, POWER (AUS)			
⚠59	1-829-627-11	POWER-SUPPLY CORD (MX)			
61	1-828-963-11	WIRE (FLAT TYPE) (11 CORE)			(EXCEPT AEP, UK)
61	1-828-980-11	WIRE (FLAT TYPE) (15 CORE) (AEP, UK)			
⚠F901	1-532-464-32	FUSE 2.5A/250V (E51)			
⚠F901	1-532-503-32	FUSE T1.6AL/250V (AEP, UK, SP, AUS)			
⚠F901	1-533-452-12	FUSE, GLASS TUBE (DIA. 5) 4A/125V			(US, CND)
⚠F901	1-533-468-12	FUSE, GLASS TUBE (DIA. 5) 2A/250V (MX)			
Q503	6-702-390-01	IC MN2488-OPY-MK			
Q504	6-702-391-01	IC MP1620-OPY-MK			
Q553	6-702-390-01	IC MN2488-OPY-MK			
Q554	6-702-391-01	IC MP1620-OPY-MK			
Q603	6-702-390-01	IC MN2488-OPY-MK			
Q604	6-702-391-01	IC MP1620-OPY-MK			
Q653	6-702-390-01	IC MN2488-OPY-MK			
Q654	6-702-391-01	IC MP1620-OPY-MK			
Q703	6-702-390-01	IC MN2488-OPY-MK			
Q704	6-702-391-01	IC MP1620-OPY-MK			
Q753	6-702-390-01	IC MN2488-OPY-MK			
Q754	6-702-391-01	IC MP1620-OPY-MK			
⚠T901	1-443-185-11	POWER TRANSFORMER (US, CND)			
⚠T901	1-443-186-11	POWER TRANSFORMER (E51)			
⚠T901	1-443-521-11	POWER TRANSFORMER (MX)			
⚠T901	1-443-629-11	POWER TRANSFORMER (AEP, UK, SP, AUS)			
TN1	1-693-675-11	TUNER UNIT (MX)			
TN1	1-693-675-21	TUNER UNIT (US, CND, E51)			
TN1	1-693-676-21	TUNER UNIT (AEP, UK)			
TN1	1-693-678-11	TUNER UNIT (SP, AUS)			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REVISION HISTORY

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Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2005.02	New
1.1	2005.09	Addition of the system name (HTP-82DWK) for use